

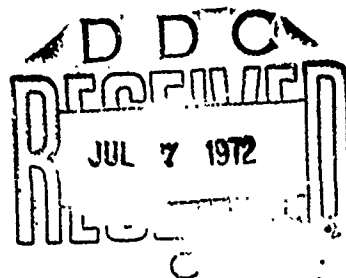
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"COMPUTER AIDED DESIGN OF BRAID  
PARAMETERS FOR COAXIAL CABLE"  
BY J. SPERGER, USA ELCT TECH & DEV LAB

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13. ABSTRACT  A computer program was designed to calculate braid parameters for coaxial cable such as percent coverage, fill factor, angle, attenuation factor ( $K_p$ ). Data is provided over a range of carriers, picks, ends, strand diameter, and diameter over the dielectric.  Key words: braid, shield, coaxial, coverage, attenuation, fill factor			

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Security Classification

# COMPUTER AIDED DESIGN OF BRAID PARAMETERS FOR COAXIAL CABLE

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Fort Monmouth, N. J. 07703

**INTRODUCTION:** Shielding of coaxial cable as well as other special multi-conductor cable designs is becoming increasingly important to minimize electromagnetic radiation from or into the cable. Digital data transmission, broadband radio frequency circuits, sensitive audio or voice circuits, as well as high intensity voltages such as lightning or electromagnetic pulse (EMP) have established requirements for better shielding of cable. For cables whose application requires a high degree of flexibility (ease of bending and/or long flex life), braided conductors are frequently used in the cable design.

The cable design engineer who must establish the specification for the braid is faced with optimizing the design in regard to its shielding effectiveness, weight and cost, attenuation, and its flexibility. In order to provide the cable engineer with a tool to aid him in selecting a design, a computer program (Fortran IV) was developed for the enclosed series of tabular data which could be readily used to determine the physical parameters of the braid, as well as information to judge its potential flexibility and attenuation characteristics.

**CALCULATION** Before discussing the data in the tables, brief review is given of the braid elements and the formulas used to calculate the various parameters.

Figure 1 schematically illustrates the elements of a braid design on a circular cable core which could represent the dielectric of a coaxial cable, or a stranded multi-conductor core, or a single insulated wire. The formulas for calculating the various braid parameters are derived from Figure 2 and are given by:

- (1)  $C = (2F - F^2) \times 100$
- (2)  $F = \frac{PND}{\sin A}$
- (3)  $A = \tan^{-1} \frac{2\pi(D + 2d) P/C}{D}$
- (4)  $W = (2 \frac{D}{d}) Fw$
- (5)  $\alpha_c = C \left[ \left( \frac{K_b}{d} \right) + \left( \frac{K_b}{D} \right) \right] \sqrt{f}$
- (6)  $K_b = 1.0/F \cos^2 A$

where:

- C = percentage of area of cable surface covered by braid
- F = fill factor (space or weight factor)
- A = angle of braid wire with cable axis
- D = diameter of cable core
- d = strand (or braid wire) diameter
- P = picks per inch
- C = number of carriers
- N = number of ends (braid wire) per carrier
- W = weight of braid per unit length
- w = weight of strand (braid wire) per unit length
- $K_b$  = braiding factor which is used for attenuation calculations
- $\alpha_c$  = attenuation of copper conductors in coaxial cable
- C = constant for a given conductor material and cable impedance

**TABULAR DATA:** For a specified number of carriers, ends per carrier, and picks per inch, each table includes the coverage, fill factor, angle, and braiding factor as the strand diameter and diameter over dielectric is varied. There are forty-five such tables for each combination of 5 carriers (12, 16, 24, 36, 48), 3 picks per inch (3, 9, 15) and 3 ends per carrier (4, 7, 10). The strand diameters range from 0.003 to 0.010 inches and the diameter over dielectric range from 0.050 to 1.000 inches. These values are considered quite practical for most cable designs and interpolation or approximation can be easily made for any other combination of braid parameters. To provide data for smaller intervals within the range of ends and picks would result in an excessive number of tables. (For example, if the number of intervals were increased from 3 to 5 for the ends and picks, we would have 125 tables).

In using the tables, the following qualifications should be noted:

- (a) The asterisk indicates that the coverage exceeds 100% or the braiding factor is less than 1, and is therefore not a realistic braid design. One-hundred percent coverage or braiding factor equal to 1 is equivalent to a solid conductor and a braid cannot be better than a solid conductor.

(b) Coverage of 100% in the table is the result of rounding off of the decimal to the nearest tenth, i.e., when the coverage is equal to or greater than 99.95%, it is printed out of the computer as 100.0%.

(c) The calculations are based on a tight braid design (i.e., mean diameter equal to  $D + 2d$ ), and no allowance was made for air space or looseness. For larger size cables, it may be more accurate to use a mean diameter of  $(D + 3d)$  instead of  $(D + 2d)$ . The data in the tables are limiting values and practical cables would actually have slightly lower coverage than those indicated because of manufacturing tolerances and variations.

(d) The weight of the braid is not given in the table since the density or weight of the braid material must be known; however, it can be readily calculated from equation (4) for any specified braid material, strand diameter, and core diameter since the fill factor for the braid is given in the table.

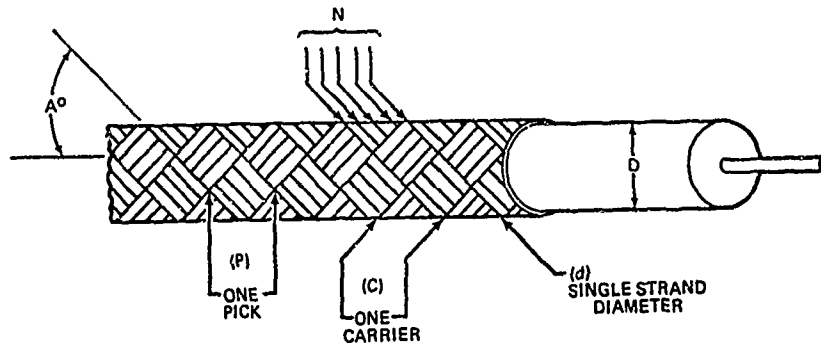
(e) The braiding factor is useful in calculating outer conductor or shield attenuation. It is a measure of the ratio of the lay factor to the fill factor. The lay factor is the ratio of the actual length of wire to the linear length of cable, therefore, the greater the lay factor the greater the braiding factor. In addition, the fill factor is a measure of the surface area covered by the braid, therefore the lower the fill factor, the greater the braiding factor. It is therefore reasonably apparent that the longer the braid wire relative to the length of cable and the lower the fill factor, the greater will be the braiding factor and, in turn, the attenuation.

REFERENCE: Spicer, L. R., "Relationships Between Attenuation and Wire Braid Design for Flexible Radio Frequency Cables," Electrical Communication, Vol. 40, No. 4, 1965, pp 487-492



Jack Spergel was born in Brooklyn, New York, on September 3, 1924. He attended City College of New York from 1942 to 1943, and served in the U. S. Army Air Corps from 1943 to 1945. After World War II, Mr. Spergel attended Cornell University, Ithaca, New York, where he received a B.E.E. degree in 1949. He is a Senior Member of IEEE.

Since 1949, he has been employed at the Electronic Technology and Devices Laboratory, U. S. Army Electronics Command, Ft. Monmouth, N. J., where he has been engaged in research and development of coaxial transmission lines, wire and cable, and electrical connectors. For the past eight years, Mr. Spergel has been Chief, Transmission and Electromechanical Devices Branch, responsible for the development of cables and connectors for USAFSCOM and coordinating such activities within Dept. of Army and DOD. He is currently the Army Representative to NATO Special Working Group AG/67(SWG/12) on "Electrical Connectors and Connections." For the past eight years, he has been Co-Chairman of the International Wire and Cable Symposium, and served as chairman of a USAMC Ad-Hoc Committee on a Handbook for Electrical Wire and Cable (ANCP 706-125). Mr. Spergel has published over 15 technical papers on the subject of connectors and/or cable, and has recently written a chapter on Coaxial Transmission Lines for a McGraw-Hill Handbook on Wire and Cable to be published in the near future.



SHIELD-CONSTRUCTION DETAILS

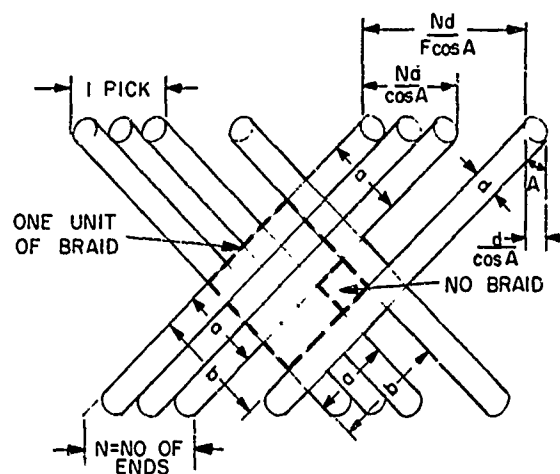
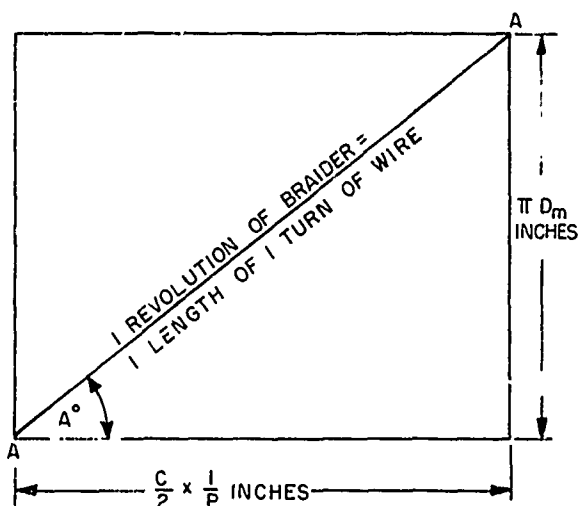
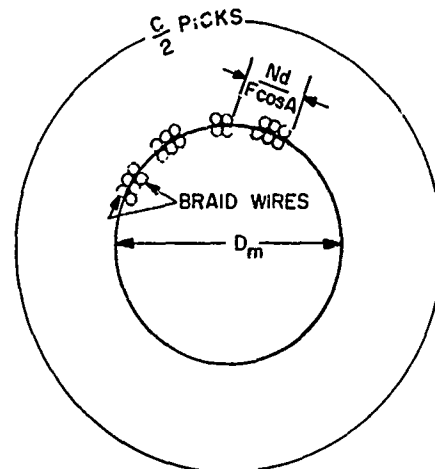
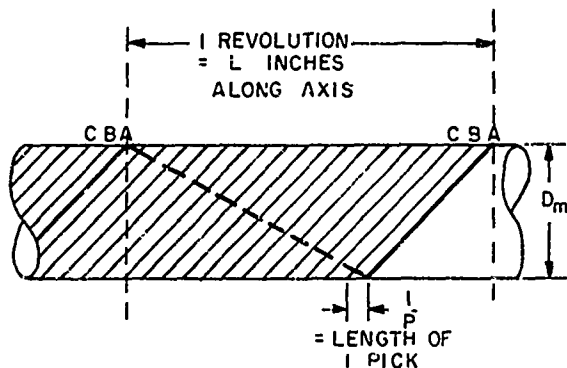
FIG. 1

FORTRAN IV COMPUTER PROGRAM FOR CALCULATING BRAID PARAMETERS

```

100 FILE 6=OUTPT, UNIT=PRINTER
200 REAL K(25),C(5),D(7),P(7),N(7),A(25),COV(25),DOD(25),F(25)
300 DATA C/12,16,24,36,48/,P/3,5,7,9,11,13,15/,
400 - N/4,5,6,7,8,9,10/,D/.003,.004,.005,.006,.007,.008,.010/
500 PI=4.*ATAN(1.)
700 5 FORMAT(1H1,45X,"BRAID DESIGN PARAMETERS FOR COAXIAL CABLE")
800 DO 100 KC=1,5,1
900 CR=C(KC)
1000 DO 100 I=1,7,3
1100 PK=P(I)
1200 DO 100 J=1,7,3
1300 EN=N(J)
1350 WRITE(6,5)
1400 WRITE(6,10)
1500 10 FORMAT(1H0,50X,"CARRIERS PICKS ENDS")
1600 WRITE(6,15) CR,PK,EN
1700 15 FORMAT(1H ,53X,12,10X,12,7X,12)
1800 WRITE(6,20)
1900 20 FORMAT(1H0,"STR.DIA.",20X,"DIAMETER OVER DIELECTRIC")
2000 WRITE(6,25)
2100 25 FORMAT(1H0,12X,"0.050 0.100 0.150 0.200 0.250 0.300"
2200 -" 0.350 0.400 0.450 0.500 0.550 0.600 0.650 0.700 0.750"
2250 -" 0.800 0.850 0.900 0.950 1.000")
2300 DO 100 L=1,7
2400 SD=D(L)
2500 DO 150 M=1,20
2600 DOD(M)=FLOAT(M)/20
2700 A(M)=(180./PI)*ATAN(2.*PI*(DOD(M)+2.*SD)*PK/CR)
2800 F(M)=PK*EN*SD/SIN(A(M)*PI/180.)
2900 COV(M)=(2.*F(M)-F(M)**2)*100
3000 K(M)=1.0/(F(M)*(COS(A(M)*PI/180.))**2)
3100 IF(F(M).LE.1.0)GO TO 150
3150 COV(M)=10E50
3160 K(M)=10E50
3200 150 CONTINUE
3300 WRITE(6,30)SD,(COV(M),M=1,20)
3400 30FORMAT(1H0,F6.3,3X,"2C",20F6.1)
3420 WRITE(6,35) (F(M),M=1,20)
3440 35FORMAT(1H ,10X,"F",20F6.3)
3500 WRITE(6,35) (A(M),M=1,20)
3600 35FORMAT(1H ,10X,"A",20F6.1)
3700 WRITE(6,40) (K(M),M=1,20)
3800 40FORMAT(1H ,10X,"K",20F6.2)
3850 100 CONTINUE
3900 STOP
4000 END

```



$D_m = (D + 2d)$  mean diameter

Length of lay =  $C/2P$  = Number of picks x length of pick

$$\tan A = \pi D_m / (C/2P) = 2 \pi (D + 2d)P / C$$

$$A = \tan^{-1} 2 \pi (D + 2d)P / C$$

$F = a/b$  = fill factor, i.e., the ratio of the actual width of one pick to the width of one pick for 100% coverage

Width of one pick =  $Nd / \cos A$

Number of picks =  $C/2$

$$\text{Average circumference} = \pi D_m = (Nd / F \cos A) (C/2)$$

$$\cos A = NdC / 2 \pi D_m F$$

$$(\cos A) (\tan A) = \sin A = (NdC / 2 \pi D_m F) (2 \pi D_m P / C)$$

$$F = NdP / \sin A$$

$$\% \text{ Coverage} = \frac{\text{actual area of braid}}{\text{total surface area}} \times 100$$

$$= \frac{b^2 - (b-a)^2}{b^2} = \frac{b^2 - b^2 + 2ab - a^2}{b^2}$$

$$\% \text{ Coverage} = \frac{2ab}{b^2} - \frac{a^2}{b^2} = 2 \left( \frac{a}{b} \right) - \left( \frac{a}{b} \right)^2 = 2F - F^2$$

From Reference:

Braiding Factor,  $K_b$ , is ratio of lay factor  $K_l$  to fill factor,  $F$ .

Lay factor is defined as  $K_l = 1 + \tan^2 A$

$$K_b = K_l / F = (1 + \tan^2 A) / F$$

$$K_b = 1 / F \cos^2 A$$

BRAID DESIGN PARAMETERS FOR COAXIAL CABLE

SIP, DIA.		CARRIERS												PICKS			ENDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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0.003	XC	65.3	39.0	28.0	22.0	18.4	15.9	14.2	12.9	12.0	11.2	10.6	10.2	9.8	9.5	9.2	9.0	8.8	8.6	8.5	8.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		



CARRIERS PICKS FND5  
12 3 7

STR.DIA.

DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC 92.1	62.0	45.9	36.7	30.9	27.0	24.1	22.1	20.5	19.2	18.2	17.4	16.4	16.2	15.8	15.4	15.1	14.8	14.6	14.4
	F 0.719	0.384	0.265	0.205	0.169	0.145	0.129	0.117	0.108	0.101	0.096	0.091	0.088	0.085	0.082	0.080	0.079	0.077	0.076	0.075
	A 5.0	9.5	13.8	17.9	21.9	25.7	29.2	32.5	35.6	38.5	41.1	43.6	45.9	48.0	49.9	51.7	53.4	54.9	56.3	57.7
	K 1.40	2.08	4.00	5.40	6.86	8.47	10.17	12.01	13.99	16.12	18.41	20.86	23.49	26.29	29.26	32.42	35.76	39.29	43.00	46.91
0.004	XC 99.4	75.2	57.6	46.8	39.7	34.9	31.3	28.7	26.7	25.1	23.9	22.8	22.0	21.3	20.7	20.2	19.8	19.5	19.2	18.9
	F 0.926	0.502	0.349	0.270	0.228	0.193	0.171	0.156	0.144	0.135	0.127	0.122	0.117	0.113	0.110	0.107	0.105	0.103	0.101	0.099
	A 5.2	9.6	13.9	18.1	22.1	25.8	29.4	32.7	35.7	38.6	41.2	43.7	45.9	48.0	50.0	51.8	53.4	55.0	56.4	57.7
	K 1.09	2.05	3.04	4.09	5.21	6.40	7.68	9.06	10.55	12.15	13.88	15.72	17.70	19.80	22.04	24.41	26.93	29.58	32.37	35.30
0.005	XC 85.3	67.6	55.8	47.8	42.2	38.1	35.0	32.6	30.8	29.3	28.1	27.0	26.2	25.5	24.9	24.4	24.0	23.6	23.3	23.1
	F 1.119	0.617	0.431	0.335	0.278	0.240	0.213	0.194	0.179	0.168	0.159	0.152	0.146	0.141	0.137	0.134	0.131	0.128	0.126	0.124
	A 5.4	9.8	14.1	18.3	22.2	26.0	29.5	32.8	35.9	38.7	41.3	43.8	46.0	48.1	50.0	51.8	53.5	55.0	56.4	57.8
	K 1.67	2.47	3.31	4.20	5.16	6.19	7.30	8.49	9.78	11.16	12.64	14.22	15.91	17.71	19.61	21.62	23.75	25.99	28.34	
0.006	XC 92.6	76.1	63.9	55.3	49.1	44.5	41.0	38.3	36.2	34.5	32.1	31.9	30.9	30.1	29.5	28.9	28.4	27.9	27.6	27.4
	F 1.300	0.727	0.511	0.399	0.331	0.286	0.255	0.232	0.215	0.201	0.190	0.182	0.175	0.169	0.164	0.160	0.157	0.154	0.151	0.149
	A 5.6	10.0	14.3	18.4	22.4	26.1	29.6	32.9	36.0	38.8	41.4	43.9	46.1	48.2	50.1	51.9	53.6	55.1	56.5	57.8
	K 1.42	2.08	2.79	3.53	4.33	5.19	6.12	7.12	8.19	9.35	10.58	11.91	13.32	14.82	16.41	18.09	19.86	21.73	23.69	
0.007	XC 97.2	83.1	71.0	62.0	53.4	46.7	43.7	41.3	39.4	37.9	36.6	35.5	34.6	33.5	33.8	33.7	32.6	32.1	31.7	31.7
	F 1.470	0.834	0.589	0.461	0.388	0.332	0.296	0.270	0.250	0.234	0.222	0.212	0.204	0.197	0.191	0.187	0.183	0.179	0.176	0.174
	A 5.7	10.2	14.4	18.6	22.5	26.3	29.8	33.0	36.1	38.9	41.5	44.0	46.2	48.3	50.2	52.0	53.6	55.1	56.6	57.9
	K 1.24	1.81	2.41	3.05	3.74	4.48	5.28	6.14	7.06	8.05	9.12	10.25	11.46	12.75	14.12	15.56	17.09	18.69	20.38	
0.008	XC 99.6	88.8	77.2	68.2	61.3	56.1	52.0	48.8	46.2	44.2	42.5	41.1	39.9	38.9	38.1	37.4	36.7	36.2	35.7	35.7
	F 1.629	0.937	0.666	0.523	0.436	0.378	0.337	0.307	0.284	0.267	0.253	0.242	0.232	0.225	0.218	0.213	0.209	0.205	0.201	0.198
	A 5.9	10.3	14.6	18.7	22.7	26.4	29.9	33.2	36.2	39.0	41.6	44.1	46.3	48.4	50.3	52.0	53.7	55.2	56.6	57.9
	K 1.10	1.60	2.13	2.70	3.30	3.95	4.65	5.40	6.21	7.08	8.01	9.01	10.08	11.21	12.40	13.67	15.01	16.41	17.89	
0.010	XC 96.5	87.3	78.6	71.7	66.1	61.7	58.2	55.4	53.1	51.1	49.5	48.2	47.1	46.1	45.3	44.6	43.9	43.4	43.4	43.4
	F 1.921	1.134	0.814	0.643	0.538	0.468	0.418	0.381	0.354	0.332	0.315	0.301	0.290	0.280	0.272	0.266	0.260	0.255	0.251	0.248
	A 6.3	10.7	15.0	19.1	23.0	26.7	30.2	33.4	36.4	39.2	41.8	44.2	46.5	48.5	50.4	52.2	53.8	55.3	56.7	58.0
	K 1.32	1.74	2.19	2.68	3.20	3.76	4.37	5.02	5.72	6.47	7.28	8.13	9.04	10.00	11.02	12.09	13.22	14.41	15.61	

	CARRIERS			PICKS			ENDS		
	12			3			10		

IR.DIA.

DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	10.000000	79.6	61.3	49.9	42.4	37.2	33.5	30.7	28.5	26.8	25.5	24.4	23.5	22.8	22.1	21.6	21.2	20.8	20.5	20.2
F	1.027	0.548	0.378	0.292	0.241	0.208	0.184	0.167	0.155	0.145	0.137	0.131	0.125	0.121	0.118	0.115	0.112	0.110	0.108	0.107
A	5.0	9.5	13.8	17.9	21.9	25.7	29.2	32.5	35.6	38.5	41.1	43.6	45.9	48.0	49.9	51.7	53.4	54.9	56.3	57.7
K	0.000000	1.08	2.80	3.78	4.82	5.93	7.12	8.40	9.79	11.28	12.88	14.60	16.44	18.40	20.48	22.70	25.03	27.50	30.10	32.83
0.004	10.000000	92.0	74.8	62.3	53.7	47.5	43.0	39.5	36.9	34.8	33.1	31.7	30.6	29.7	28.9	28.2	27.7	27.2	26.7	26.4
F	1.323	0.717	0.498	0.386	0.319	0.276	0.245	0.222	0.205	0.192	0.182	0.174	0.167	0.161	0.157	0.153	0.149	0.147	0.144	0.142
A	5.2	9.6	13.9	18.1	22.1	25.8	29.4	32.7	35.7	38.6	41.2	43.7	45.9	48.0	50.0	51.8	53.4	55.0	56.4	57.7
K	0.000000	1.43	2.13	2.86	3.64	4.48	5.38	6.34	7.39	8.51	9.71	11.01	12.39	13.86	15.43	17.09	18.85	20.70	22.66	24.71
0.005	10.000000	98.6	85.2	72.8	63.6	56.7	51.7	47.7	44.7	42.2	40.3	38.7	37.3	36.2	35.3	34.5	33.8	33.3	32.8	32.3
F	1.599	0.881	0.615	0.479	0.397	0.343	0.305	0.277	0.256	0.238	0.227	0.217	0.208	0.201	0.196	0.191	0.187	0.183	0.180	0.177
A	5.4	9.8	14.1	18.3	22.2	26.0	29.5	32.8	35.9	38.7	41.3	43.8	46.0	48.1	50.0	51.8	53.5	55.0	56.4	57.8
K	0.000000	1.17	1.73	2.32	2.94	3.61	4.33	5.11	5.94	6.84	7.81	8.85	9.96	11.14	12.39	13.73	15.14	16.62	18.19	19.84
0.006	10.000000	92.7	81.5	72.2	65.1	59.6	55.3	51.9	49.2	47.0	45.2	43.7	42.5	41.4	40.5	39.7	39.1	38.5	38.0	37.5
F	1.857	1.039	0.730	0.570	0.473	0.409	0.364	0.331	0.306	0.287	0.272	0.260	0.250	0.241	0.235	0.229	0.224	0.220	0.216	0.213
A	5.6	10.0	14.3	18.4	22.4	26.1	29.6	32.9	36.0	38.8	41.4	43.9	46.1	48.2	50.1	51.9	53.6	55.1	56.5	57.8
K	0.000000	1.46	1.95	2.67	3.03	3.03	3.63	4.28	4.98	5.73	6.54	7.41	8.33	9.32	10.37	11.48	12.66	13.90	15.21	16.59
0.007	10.000000	97.5	84.4	79.5	72.4	66.7	62.2	58.6	55.7	53.3	51.4	49.7	48.4	47.2	46.2	45.4	44.6	44.0	43.4	42.8
F	2.099	1.191	0.842	0.659	0.548	0.475	0.423	0.385	0.357	0.334	0.317	0.303	0.291	0.281	0.273	0.267	0.261	0.256	0.252	0.248
A	5.7	10.2	14.4	18.6	22.5	26.3	29.8	33.0	36.1	38.9	41.5	44.0	46.2	48.3	50.2	52.0	53.8	55.1	56.6	57.9
K	0.000000	1.27	1.69	2.32	2.62	2.62	3.14	3.69	4.29	4.94	5.64	6.38	7.18	8.03	8.93	9.88	10.89	11.96	13.08	14.26
0.008	10.000000	99.8	93.6	85.8	78.8	73.1	68.5	64.8	61.7	59.2	57.1	55.4	53.9	52.7	51.6	50.7	49.9	49.2	48.6	48.0
F	2.327	1.339	0.951	0.747	0.623	0.540	0.482	0.439	0.406	0.381	0.361	0.345	0.332	0.321	0.312	0.304	0.298	0.292	0.287	0.283
A	5.9	10.3	14.6	18.7	22.7	26.4	29.9	33.2	36.2	39.0	41.6	44.1	46.3	48.4	50.3	52.0	53.7	55.2	56.6	57.9
K	0.000000	1.12	1.49	1.89	2.31	2.76	3.25	3.78	4.35	4.96	5.61	6.31	7.05	7.84	8.68	9.57	10.50	11.49	12.52	13.60
0.010	10.000000	99.3	94.6	89.0	83.6	79.3	75.5	72.4	69.7	67.5	65.6	64.1	62.7	61.5	60.5	59.7	58.9	58.2	57.5	56.8
F	2.745	1.620	1.163	0.918	0.768	0.668	0.597	0.545	0.505	0.474	0.450	0.430	0.414	0.400	0.390	0.380	0.372	0.365	0.359	0.354
A	6.3	10.7	15.0	19.1	23.0	26.7	30.2	33.4	36.4	39.2	41.8	44.2	46.4	48.5	50.4	52.2	53.8	55.3	56.7	58.0
K	0.000000	1.22	1.54	1.88	2.24	2.63	3.06	3.52	4.01	4.53	5.09	5.69	6.23	6.81	7.40	8.01	8.67	9.26	9.87	10.49

CARRIERS PICKS  
12 9 4

STR.DIA.

DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	SC 66.7	42.5	33.1	28.6	26.1	24.6	23.6	22.9	22.5	22.1	21.8	21.6	21.4	21.3	21.2	21.1	21.0	21.0	20.9	20.1
	F 0.423	0.242	0.182	0.155	0.140	0.131	0.126	0.122	0.119	0.117	0.116	0.114	0.113	0.112	0.112	0.111	0.111	0.111	0.111	0.110
	A 14.8	26.5	36.3	44.1	50.3	55.3	59.2	62.4	65.0	67.2	69.1	70.7	72.1	73.3	74.3	75.2	76.1	76.8	77.5	78.1
	K 2.53	5.17	8.45	12.53	17.50	23.43	30.34	38.24	47.56	57.09	68.04	80.01	93.00	107.02	122.06	138.13	155.22	173.35	192.49	212.67
0.004	SC 79.4	51.4	42.4	36.9	33.8	31.9	30.7	29.6	29.2	28.8	28.4	28.2	28.0	27.8	27.7	27.6	27.5	27.4	27.3	27.3
	F 0.546	0.317	0.241	0.206	0.186	0.175	0.167	0.162	0.159	0.156	0.154	0.153	0.151	0.150	0.150	0.149	0.148	0.147	0.147	0.147
	A 15.3	27.0	36.7	44.4	50.6	55.4	59.3	62.5	65.1	67.3	69.2	70.8	72.1	73.3	74.4	75.3	76.1	76.8	77.5	78.1
	K 1.97	3.97	6.45	9.53	13.29	17.77	22.98	28.94	35.65	43.13	51.37	60.38	70.15	80.70	92.01	104.09	116.95	130.57	144.96	160.12
0.005	SC 88.5	62.9	50.9	43.6	41.1	38.9	37.8	36.4	35.7	35.2	34.8	34.5	34.2	34.0	33.9	33.8	33.6	33.5	33.5	33.3
	F 0.662	0.391	0.299	0.256	0.232	0.218	0.209	0.203	0.198	0.195	0.192	0.191	0.189	0.188	0.187	0.186	0.185	0.185	0.184	0.184
	A 15.8	27.4	37.0	44.7	50.8	55.6	59.5	62.6	65.2	67.4	69.2	70.8	72.2	73.4	74.4	75.3	76.1	76.9	77.5	78.1
	K 1.63	3.24	5.25	7.73	10.76	14.37	18.56	23.35	28.75	34.76	41.37	48.60	56.45	64.91	73.98	83.67	93.98	104.90	116.44	128.60
0.006	SC 94.7	71.1	58.5	51.8	47.9	45.4	43.8	42.7	41.9	41.3	40.8	40.5	40.2	40.0	39.8	39.7	39.5	39.4	39.3	39.3
	F 0.770	0.463	0.356	0.306	0.278	0.261	0.250	0.243	0.238	0.234	0.231	0.229	0.227	0.225	0.224	0.223	0.222	0.222	0.221	0.221
	A 16.3	27.8	37.4	45.0	51.0	55.8	59.6	62.7	65.3	67.5	69.3	70.9	72.2	73.4	74.4	75.3	76.2	76.9	77.6	78.2
	K 1.41	2.76	4.85	6.54	9.08	12.10	15.62	19.83	24.75	29.17	34.71	40.76	47.31	54.38	61.97	70.08	78.67	87.79	97.43	107.58
0.007	SC 98.4	78.1	65.4	58.4	54.2	51.6	49.8	48.6	47.7	47.1	46.6	46.2	45.9	45.7	45.5	45.3	45.2	45.0	44.9	44.9
	F 0.873	0.532	0.412	0.355	0.323	0.304	0.292	0.283	0.277	0.273	0.269	0.267	0.265	0.263	0.262	0.260	0.259	0.259	0.258	0.257
	A 16.8	28.2	37.7	45.2	51.2	55.9	59.8	62.9	65.4	67.6	69.4	70.9	72.3	73.4	74.5	75.4	76.2	76.9	77.6	78.2
	K 1.25	2.42	3.88	5.68	7.88	10.49	13.52	16.97	20.86	25.19	29.95	35.15	40.79	46.87	53.38	60.34	67.74	75.57	83.85	92.57
0.008	SC 99.9	84.0	71.6	64.4	60.1	57.3	55.5	54.2	53.3	52.6	52.1	51.6	51.3	51.1	50.8	50.7	50.5	50.4	50.3	50.2
	F 0.970	0.600	0.467	0.404	0.368	0.347	0.333	0.323	0.316	0.311	0.308	0.305	0.302	0.300	0.299	0.298	0.297	0.296	0.295	0.294
	A 17.3	28.7	38.0	45.5	51.4	56.1	59.9	63.0	65.5	67.6	69.4	71.0	72.3	73.5	74.5	75.4	76.2	77.0	77.6	78.2
	K 1.13	2.16	3.45	5.04	6.98	9.27	11.94	14.98	18.40	22.20	26.38	30.95	35.90	41.23	46.95	53.05	59.54	66.41	73.67	81.31
0.010	SC 100.0	82.0	75.0	70.6	67.7	65.8	64.4	63.4	62.6	62.1	61.6	61.3	61.0	60.7	60.5	60.4	60.2	60.1	60.0	60.0
	F 1.149	0.731	0.576	0.500	0.458	0.432	0.415	0.403	0.395	0.389	0.384	0.381	0.378	0.375	0.373	0.372	0.371	0.369	0.368	0.368
	A 18.3	29.5	38.7	46.0	51.8	56.4	60.2	63.2	65.7	67.8	69.6	71.1	72.4	73.6	74.6	75.5	76.3	77.0	77.7	78.2
	K 0.0000	1.80	2.85	4.15	5.72	7.58	9.73	12.19	14.95	18.02	21.39	25.06	29.05	33.34	37.94	42.84	48.04	53.58	59.41	65.55

		CARRIERS PICKS ENDS																			
		12																			
		UJAMBEH OVER DIELECTRIC																			
SIR.DIA.		0.050 0.100 0.150 0.200 0.250 0.300 0.350 0.400 0.450 0.500 0.550 0.600 0.650 0.700 0.750 0.800 0.850 0.900 0.950 1.000																			
0.003	XC	93.3	66.7	53.6	46.9	43.1	40.7	39.2	38.1	37.3	36.8	36.4	36.0	35.8	35.6	35.4	35.3	35.2	35.1	35.0	34.9
	F	0.741	0.423	0.319	0.271	0.245	0.230	0.220	0.213	0.208	0.205	0.202	0.200	0.199	0.197	0.196	0.195	0.195	0.194	0.194	0.193
	A	14.8	20.5	36.3	48.1	50.3	55.3	59.2	62.4	65.0	67.2	69.1	70.7	72.1	73.3	74.3	75.2	76.1	76.8	77.5	78.1
	K	1.44	2.95	2.83	7.16	10.00	13.30	17.34	21.85	26.95	32.62	38.88	45.72	53.14	61.15	69.75	78.93	88.70	99.05	110.00	121.53
0.004	XC	99.8	80.2	66.6	59.0	54.6	51.8	50.0	48.7	47.8	47.2	46.7	46.3	45.9	45.7	45.5	45.3	45.2	45.1	45.0	44.9
	F	0.956	0.556	0.422	0.360	0.326	0.306	0.293	0.284	0.278	0.273	0.270	0.267	0.265	0.263	0.262	0.261	0.260	0.259	0.258	0.258
	A	15.3	27.0	46.7	48.4	50.6	55.8	59.3	62.5	65.1	67.3	69.2	70.8	72.1	73.3	74.4	75.3	76.1	76.8	77.5	78.1
	K	1.12	2.27	3.68	5.45	7.59	10.15	13.13	16.53	20.37	24.65	29.36	34.50	40.09	46.11	52.58	59.48	66.83	74.61	82.84	91.50
0.005	XC	100.0	77.3	69.5	63.8	61.8	59.8	58.4	57.3	56.6	56.0	55.6	55.2	54.9	54.7	54.5	54.4	54.3	54.2	54.1	54.0
	F	1.158	0.684	0.523	0.448	0.407	0.382	0.366	0.355	0.347	0.341	0.337	0.334	0.331	0.329	0.327	0.326	0.324	0.323	0.323	0.322
	A	15.8	27.4	47.0	48.7	50.8	55.6	59.5	62.6	65.2	67.4	69.2	70.8	72.2	73.4	74.4	75.3	76.1	76.9	77.5	78.1
	K	1.85	3.00	4.42	6.15	8.21	10.61	13.34	16.43	19.86	23.64	27.77	32.26	37.00	42.28	47.81	53.70	59.94	66.54	73.48	
0.006	XC	100.0	85.8	78.4	73.6	70.5	68.4	67.0	65.9	65.1	64.5	64.0	63.6	63.3	63.1	62.9	62.7	62.6	62.4	62.3	62.3
	F	1.348	0.810	0.623	0.535	0.486	0.457	0.438	0.425	0.416	0.409	0.404	0.400	0.397	0.394	0.392	0.391	0.389	0.388	0.387	0.386
	A	16.3	27.8	47.4	49.0	51.0	55.8	59.6	62.7	65.3	67.5	69.3	70.9	72.2	73.4	74.4	75.4	76.2	76.9	77.5	78.2
	K	1.58	2.54	3.74	5.19	6.92	8.92	11.22	13.80	16.67	19.83	23.29	27.04	31.08	35.41	40.04	44.94	50.17	55.67	61.47	
0.007	XC	100.0	92.2	85.6	81.1	78.1	76.0	74.6	73.5	72.7	72.0	71.5	71.2	70.8	70.6	70.4	70.2	70.0	69.9	69.8	69.8
	F	1.527	0.932	0.721	0.621	0.566	0.532	0.510	0.496	0.485	0.477	0.471	0.467	0.463	0.460	0.458	0.456	0.454	0.453	0.452	0.451
	A	16.8	28.2	47.7	49.2	51.2	55.9	59.8	62.9	65.4	67.6	69.4	70.9	72.3	73.5	74.5	75.4	76.2	76.9	77.5	78.2
	K	1.38	2.21	3.25	4.50	5.99	7.72	9.70	11.92	14.39	17.11	20.09	23.31	26.78	30.54	34.68	38.71	43.19	47.92	52.90	
0.008	XC	100.0	96.7	91.4	87.4	84.6	82.6	81.1	80.1	79.3	78.7	78.2	77.8	77.5	77.2	77.0	76.9	76.7	76.6	76.5	76.5
	F	1.697	1.051	0.818	0.707	0.645	0.607	0.583	0.566	0.554	0.545	0.536	0.531	0.529	0.526	0.523	0.521	0.519	0.517	0.516	0.515
	A	17.3	28.7	48.0	49.5	51.4	56.1	59.9	63.0	65.5	67.6	69.4	71.0	72.5	73.8	75.4	76.2	76.9	77.5	78.2	78.2
	K	1.97	2.88	3.99	5.30	6.82	8.56	10.51	12.68	15.07	17.68	20.51	23.56	26.83	30.31	34.02	37.95	42.10	46.46		
0.010	XC	100.0	100.0	98.4	96.1	94.0	92.5	91.3	90.5	89.8	89.3	88.8	88.5	88.2	88.0	87.8	87.6	87.4	87.3	87.3	87.3
	F	2.011	1.280	1.008	0.875	0.801	0.756	0.726	0.706	0.691	0.680	0.672	0.666	0.661	0.657	0.653	0.651	0.649	0.647	0.645	0.643
	A	18.3	29.5	48.7	49.0	51.8	56.4	60.2	63.2	65.7	67.8	69.6	71.1	72.4	73.6	74.6	75.5	76.3	77.0	77.7	78.2
	K	2.37	3.27	4.33	5.56	6.97	8.54	10.29	12.22	14.32	16.60	19.05	21.68	24.48	27.46	30.62	33.95	37.46			

CARRIERS PICKS ENDS  
1? 9 10

STR.DIA.

DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	SC*****	84.3	70.4	62.5	57.8	54.9	53.0	51.6	50.7	50.0	49.4	49.0	48.7	48.4	48.2	48.0	47.9	47.8	47.7	47.6
	F 1.058	0.608	0.456	0.388	0.351	0.329	0.314	0.305	0.298	0.293	0.289	0.286	0.284	0.282	0.280	0.279	0.278	0.277	0.276	0.275
	A 14.8	26.5	36.3	44.1	50.3	55.3	59.2	62.4	65.0	67.2	69.1	70.7	72.1	73.3	74.3	75.2	76.1	76.8	77.5	78.1
	K*****	2.07	3.38	5.01	7.00	9.37	12.13	15.30	18.86	22.82	27.21	32.00	37.20	42.81	48.82	55.25	62.09	69.34	77.00	85.07
0.004	SC*****	95.7	84.2	76.4	71.5	68.3	66.2	64.7	63.6	62.8	62.2	61.7	61.3	61.0	60.8	60.6	60.4	60.3	60.1	60.0
	F 1.365	0.794	0.603	0.514	0.466	0.437	0.418	0.406	0.397	0.390	0.385	0.381	0.378	0.376	0.374	0.372	0.371	0.370	0.369	0.368
	A 15.3	27.0	36.7	44.4	50.6	55.4	59.3	62.5	65.1	67.3	69.2	70.8	72.1	73.3	74.4	75.3	76.1	76.8	77.5	78.1
	K*****	1.59	2.58	3.81	5.37	7.11	9.19	11.57	14.26	17.25	20.55	24.15	28.06	32.28	36.80	41.64	46.78	52.23	57.98	64.05
0.005	SC*****	100.0	93.6	87.0	82.4	79.3	77.2	75.7	74.6	73.7	73.1	72.6	72.2	71.9	71.6	71.4	71.2	71.1	70.9	70.8
	F 1.654	0.978	0.747	0.640	0.561	0.505	0.462	0.430	0.406	0.387	0.381	0.376	0.373	0.370	0.367	0.365	0.363	0.362	0.361	0.360
	A 15.8	27.4	37.0	44.7	50.8	55.6	59.5	62.6	65.2	67.4	69.2	70.8	72.2	73.4	74.4	75.3	76.1	76.9	77.5	78.1
	K*****	1.30	2.10	3.09	4.31	5.75	7.42	9.34	11.50	13.90	16.55	19.44	22.58	25.96	29.59	33.47	37.59	41.96	46.58	51.44
0.006	SC*****	98.8	94.4	90.7	88.0	86.0	84.6	83.5	82.7	82.1	81.6	81.3	80.9	80.7	80.5	80.3	80.1	80.0	79.9	79.8
	F 1.926	1.157	0.890	0.764	0.695	0.653	0.626	0.607	0.594	0.585	0.577	0.572	0.567	0.563	0.561	0.558	0.556	0.554	0.553	0.552
	A 16.3	27.8	37.4	45.0	51.0	55.8	59.6	62.7	65.3	67.5	69.3	70.9	72.2	73.4	74.4	75.4	76.2	76.9	77.6	78.2
	K*****	1.78	2.62	3.63	4.84	6.25	7.85	9.66	11.67	13.88	16.30	18.93	21.75	24.79	28.03	31.47	35.12	38.97	43.03	47.33
0.007	SC*****	98.7	94.3	90.7	88.0	86.0	84.6	83.5	82.7	82.1	81.6	81.3	80.9	80.7	80.5	80.3	80.1	80.0	79.9	79.8
	F 2.182	1.331	1.030	0.887	0.808	0.760	0.729	0.708	0.693	0.682	0.673	0.667	0.661	0.657	0.654	0.651	0.649	0.647	0.645	0.644
	A 16.8	28.2	37.7	45.2	51.2	55.9	59.7	62.9	65.4	67.6	69.4	70.9	72.3	73.4	74.5	75.4	76.2	76.9	77.6	78.2
	K*****	2.27	3.15	4.19	5.41	6.79	8.34	10.07	11.98	14.06	16.32	18.75	21.35	24.14	27.09	30.23	33.54	37.03	40.71	44.57
0.008	SC*****	99.4	98.2	97.2	96.3	95.6	95.1	94.7	94.3	94.0	93.8	93.6	93.4	93.3	93.2	93.1	93.0	92.9	92.8	92.7
	F 2.424	1.501	1.129	0.921	0.867	0.832	0.808	0.791	0.779	0.769	0.762	0.756	0.751	0.747	0.744	0.741	0.739	0.737	0.735	0.733
	A 17.3	28.7	38.0	45.5	51.4	56.1	59.9	63.0	65.5	67.6	69.4	71.0	72.3	73.5	74.5	75.4	76.2	77.0	77.6	78.2
	K*****	2.79	3.71	4.78	5.99	7.36	8.88	10.55	12.38	14.36	16.49	18.77	21.22	23.81	26.53	29.47	32.52	35.67	38.91	42.24
0.010	SC*****	100.0	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5	98.4	98.3	98.2
	F 2.873	1.828	1.439	1.250	1.145	1.080	1.038	1.008	0.987	0.972	0.960	0.951	0.944	0.938	0.934	0.930	0.926	0.924	0.921	0.919
	A 18.3	29.5	38.7	46.0	51.8	56.4	60.2	63.2	65.7	67.8	69.6	71.1	72.4	73.6	74.6	75.5	76.3	77.0	77.7	78.2
	K*****	5.98	7.21	8.55	10.02	11.62	13.33	15.17	17.14	19.22	21.43	23.76	26.22	28.81	31.52	34.35	37.29	40.33	43.47	46.71

CARRIERS PICKS ENDS  
12 15 4

DIAMETER OVER DIELECTRIC

STR. DIA.

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	30.4	46.4	41.1	37.8	36.2	35.2	34.6	34.2	33.9	33.7	33.5	33.4	33.3	33.2	33.2	33.1	33.1	33.0	33.0	33.0
F	0.447	0.281	0.232	0.212	0.201	0.195	0.191	0.189	0.187	0.186	0.185	0.184	0.183	0.183	0.183	0.182	0.182	0.182	0.182	0.181
A	23.7	39.8	50.8	58.3	63.6	67.4	70.3	72.6	74.4	75.9	77.1	78.1	79.0	79.8	80.4	81.0	81.5	82.0	82.4	82.8
K	2.67	6.02	10.76	17.10	25.08	34.76	46.13	59.20	73.98	90.48	108.61	128.60	150.23	173.57	198.62	225.39	253.87	284.06	315.97	349.59
0.004	30.4	60.4	52.1	48.4	46.4	45.2	44.5	44.0	43.6	43.4	43.2	43.0	42.9	42.8	42.7	42.7	42.6	42.6	42.6	42.5
F	0.579	0.371	0.308	0.281	0.268	0.260	0.255	0.251	0.249	0.247	0.246	0.245	0.244	0.244	0.243	0.243	0.242	0.242	0.242	0.242
A	24.5	40.3	51.1	58.5	63.7	67.5	70.4	72.7	74.5	75.9	77.1	78.2	79.0	79.8	80.5	81.0	81.6	82.0	82.4	82.8
K	2.09	4.63	8.24	13.04	19.08	26.38	34.96	44.82	55.96	68.38	82.08	97.07	113.35	130.90	149.74	169.87	191.29	213.98	237.96	263.22
0.005	30.4	70.7	62.0	57.9	55.6	54.3	53.5	53.0	52.6	52.3	52.1	51.9	51.8	51.7	51.6	51.5	51.5	51.4	51.4	51.3
F	0.704	0.459	0.383	0.334	0.311	0.300	0.294	0.290	0.287	0.285	0.284	0.283	0.282	0.281	0.280	0.279	0.278	0.277	0.276	0.275
A	25.2	40.8	51.5	58.8	63.9	67.7	70.5	72.7	74.5	76.0	77.2	78.2	79.1	79.8	80.5	81.1	81.6	82.0	82.4	82.8
K	1.74	3.61	6.17	10.60	15.48	21.36	28.27	36.19	45.14	55.12	66.13	78.16	91.22	105.30	120.42	136.56	153.73	171.93	191.16	211.41
0.006	30.4	79.3	70.6	66.4	64.0	62.6	61.8	61.2	60.7	60.4	60.2	60.0	59.9	59.8	59.7	59.6	59.5	59.5	59.4	59.4
F	0.822	0.545	0.420	0.369	0.338	0.320	0.310	0.304	0.300	0.297	0.295	0.293	0.292	0.291	0.290	0.289	0.288	0.287	0.286	0.285
A	26.0	41.3	51.8	59.0	64.1	67.8	70.6	72.8	74.6	76.0	77.2	78.2	79.1	79.8	80.5	81.1	81.6	82.0	82.4	82.8
K	1.50	3.25	5.72	8.98	13.08	18.02	23.80	30.44	37.94	46.29	55.49	65.55	76.47	88.24	100.87	114.36	128.70	143.90	159.96	176.87
0.007	30.4	86.3	78.1	73.9	71.5	70.1	69.2	68.6	68.1	67.8	67.6	67.4	67.2	67.1	67.0	66.9	66.8	66.8	66.7	66.7
F	0.935	0.630	0.532	0.489	0.466	0.453	0.445	0.439	0.436	0.433	0.431	0.429	0.428	0.427	0.426	0.425	0.424	0.424	0.423	0.423
A	26.7	41.8	52.2	59.2	64.3	67.9	70.7	72.9	74.7	76.1	77.3	78.3	79.1	79.9	80.5	81.1	81.6	82.0	82.4	82.8
K	1.38	2.86	5.00	7.83	11.36	15.63	20.62	26.34	32.79	39.97	47.89	56.55	65.93	76.05	86.91	98.50	110.82	123.88	137.67	152.20
0.008	30.4	91.7	84.4	80.4	78.1	76.7	75.8	75.2	74.8	74.4	74.2	74.0	73.9	73.7	73.6	73.6	73.5	73.4	73.4	73.3
F	1.043	0.713	0.605	0.557	0.532	0.517	0.504	0.500	0.498	0.494	0.492	0.490	0.488	0.486	0.485	0.484	0.483	0.482	0.481	0.480
A	27.4	42.3	52.5	59.5	64.4	68.1	70.8	73.0	74.7	76.1	77.3	78.3	79.2	79.9	80.6	81.1	81.6	82.0	82.4	82.8
K	1.25	2.57	4.46	6.96	10.08	13.84	18.23	23.26	28.93	35.24	42.20	49.79	58.03	66.92	76.44	86.60	97.41	108.86	120.95	133.69
0.010	30.4	98.4	93.7	90.6	88.7	87.5	86.6	86.1	85.7	85.4	85.2	85.0	84.8	84.7	84.6	84.5	84.5	84.4	84.4	84.3
F	1.245	0.875	0.750	0.693	0.663	0.646	0.635	0.627	0.622	0.618	0.615	0.613	0.611	0.609	0.608	0.607	0.606	0.605	0.605	0.605
A	28.4	43.3	53.2	59.9	64.8	68.3	71.0	73.1	74.8	76.2	77.4	78.4	79.2	80.0	80.6	81.2	81.7	82.1	82.5	82.9
K	1.16	2.16	3.71	5.75	8.29	11.33	14.88	18.95	23.53	28.62	34.23	40.34	46.98	54.12	61.78	69.96	78.64	87.85	97.50	107.79

CARRIERS PICKS ENDS  
12 15 7

SIR.DIA.

DIAMETER OVER DIELECTRIC

0.003	XC	95.3	74.2	64.8	60.3	58.0	56.6	55.7	55.1	54.7	54.4	54.2	54.0	53.9	53.8	53.7	53.6	53.6	53.6	53.5	53.5	53.4
	F	0.782	0.492	0.407	0.370	0.352	0.341	0.335	0.330	0.327	0.325	0.323	0.322	0.321	0.320	0.319	0.319	0.318	0.318	0.318	0.318	0.318
	A	23.7	39.8	50.8	58.3	63.6	67.4	70.3	72.6	74.4	75.9	77.1	78.1	79.0	79.8	80.4	81.0	81.5	82.0	82.4	82.8	82.8
	K	1.53	3.44	6.15	9.77	14.33	19.86	26.36	33.83	42.28	51.70	62.10	73.48	85.84	99.18	113.50	128.79	145.07	162.32	180.55	199.76	199.76
0.004	XC	87.7	78.8	74.2	71.7	70.2	69.3	68.6	68.2	67.9	67.6	67.4	67.3	67.1	67.0	66.9	66.9	66.8	66.8	66.8	66.7	66.7
	F	1.013	0.649	0.539	0.492	0.468	0.454	0.446	0.440	0.436	0.433	0.431	0.429	0.428	0.427	0.426	0.425	0.424	0.424	0.424	0.423	0.423
	A	24.5	40.3	51.1	58.5	63.7	67.5	70.4	72.7	74.5	75.9	77.1	78.2	79.0	79.8	80.5	81.0	81.6	82.0	82.4	82.8	82.8
	K	2.65	4.71	7.45	10.90	15.08	19.98	25.61	31.98	39.07	46.91	55.47	64.77	74.40	85.57	97.07	109.30	122.27	135.98	150.41	150.41	150.41
0.005	XC	85.1	82.7	81.3	80.4	79.7	79.3	78.9	78.7	78.5	78.4	78.3	78.2	78.1	78.0	78.0	78.0	78.0	77.9	77.9	77.9	77.8
	F	1.232	0.803	0.671	0.614	0.585	0.568	0.557	0.550	0.545	0.541	0.538	0.536	0.535	0.533	0.532	0.531	0.531	0.530	0.530	0.529	0.529
	A	25.2	40.8	51.5	58.8	63.9	67.7	70.5	72.7	74.5	76.0	77.2	78.2	79.1	79.8	80.5	81.1	81.6	82.0	82.4	82.8	82.8
	K	2.17	3.84	6.06	8.84	12.21	16.15	20.68	25.80	31.50	37.79	44.64	52.12	60.17	68.81	78.04	87.85	98.25	109.23	120.81	120.81	120.81
0.006	XC	99.8	96.1	93.0	91.0	89.8	89.0	88.4	88.0	87.7	87.5	87.3	87.2	87.0	86.9	86.9	86.8	86.8	86.7	86.7	86.7	86.7
	F	1.439	0.954	0.801	0.735	0.700	0.680	0.668	0.659	0.653	0.649	0.646	0.643	0.642	0.640	0.639	0.638	0.637	0.636	0.635	0.635	0.635
	A	26.0	41.3	51.8	59.0	64.1	67.8	70.6	72.8	74.6	76.0	77.2	78.2	79.1	79.9	80.5	81.1	81.6	82.1	82.5	82.8	82.8
	K	1.86	3.27	5.13	7.47	10.29	13.60	17.40	21.68	26.45	31.71	37.46	43.70	50.42	57.64	65.35	73.52	82.23	91.40	101.07	101.07	101.07
0.007	XC	99.5	97.9	96.6	95.7	95.1	94.7	94.3	94.1	93.9	93.8	93.7	93.6	93.5	93.4	93.4	93.4	93.3	93.3	93.3	93.3	93.3
	F	1.637	1.102	0.931	0.855	0.816	0.793	0.779	0.769	0.762	0.757	0.753	0.751	0.748	0.747	0.745	0.744	0.743	0.742	0.741	0.741	0.741
	A	26.7	41.8	52.2	59.2	64.3	67.9	70.7	72.9	74.7	76.1	77.3	78.3	79.1	79.9	80.5	81.1	81.6	82.1	82.5	82.8	82.8
	K	2.86	4.47	6.49	8.93	11.78	15.05	18.74	22.84	27.37	32.31	37.68	43.46	49.66	56.28	63.33	70.79	78.67	86.97	86.97	86.97	86.97
0.008	XC	99.9	99.5	99.1	98.8	98.5	98.3	98.2	98.1	98.0	97.9	97.8	97.7	97.6	97.5	97.4	97.3	97.2	97.1	97.0	96.9	96.8
	F	1.825	1.247	1.059	0.975	0.931	0.906	0.889	0.878	0.871	0.865	0.861	0.858	0.855	0.853	0.852	0.850	0.849	0.848	0.847	0.847	0.847
	A	27.9	42.3	52.5	59.5	64.4	68.1	70.8	73.0	74.7	76.1	77.3	78.3	79.2	79.9	80.6	81.1	81.6	82.1	82.5	82.8	82.8
	K	3.98	5.76	7.91	10.42	13.29	16.53	20.14	24.11	28.45	33.16	38.24	43.68	49.49	55.64	62.21	69.12	76.40	76.40	76.40	76.40	76.40
0.010	XC	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	F	2.179	1.531	1.312	1.213	1.161	1.130	1.110	1.097	1.088	1.081	1.076	1.072	1.069	1.066	1.064	1.063	1.061	1.060	1.059	1.058	1.058
	A	28.8	43.3	53.7	59.9	64.8	68.3	71.0	73.1	74.8	76.2	77.4	78.4	79.2	80.0	80.6	81.2	81.7	82.1	82.5	82.9	82.9
	K	5.11	7.47	10.42	13.29	16.53	20.14	24.11	28.45	33.16	38.24	43.68	49.49	55.64	62.21	69.12	76.40	76.40	76.40	76.40	76.40	76.40

		CARRIERS			PICKS			ENDS													
		12			15			10													
STR. DIA.		DIAMETER OVER DIELECTRIC																			
		0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC	91.2	82.4	77.6	75.3	73.7	72.7	72.1	71.6	71.3	71.0	70.8	70.7	70.5	70.4	70.3	70.2	70.2	70.2	70.2	70.1
	F	1.118	0.703	0.581	0.529	0.503	0.487	0.478	0.472	0.467	0.464	0.462	0.460	0.458	0.456	0.455	0.454	0.454	0.454	0.454	0.454
	A	23.7	39.8	50.8	58.3	63.6	67.4	70.3	72.6	74.4	75.9	77.1	78.1	79.0	80.4	81.0	81.5	82.0	82.4	82.4	82.8
	K	2.41	4.31	6.84	10.03	13.90	18.45	23.68	29.59	36.19	43.47	51.44	60.09	69.43	79.45	90.15	101.55	113.62	126.39	139.83	
0.004	XC	99.5	94.7	91.2	89.0	87.7	86.8	86.2	85.8	85.5	85.2	85.0	84.9	84.8	84.7	84.6	84.5	84.5	84.4	84.4	84.4
	F	1.447	0.928	0.771	0.703	0.669	0.649	0.637	0.629	0.623	0.619	0.615	0.613	0.611	0.610	0.608	0.607	0.606	0.605	0.605	0.605
	A	24.5	40.3	51.1	58.5	63.7	67.5	70.4	72.7	74.5	75.9	77.1	78.2	79.0	80.5	81.0	81.6	82.0	82.4	82.4	82.8
	K	1.05	4.30	5.22	7.63	10.55	13.98	17.93	22.38	27.35	32.83	38.83	45.34	52.36	59.90	67.95	76.51	85.59	95.18	105.29	
0.005	XC	99.8	98.5	97.3	96.2	95.8	95.4	95.1	94.8	94.7	94.5	94.3	94.3	94.3	94.2	94.2	94.1	94.1	94.1	94.1	94.0
	F	1.759	1.147	0.958	0.877	0.835	0.811	0.796	0.785	0.778	0.773	0.769	0.766	0.764	0.762	0.760	0.758	0.757	0.757	0.756	0.756
	A	25.2	40.8	51.5	58.8	63.9	67.7	70.5	72.7	74.5	76.0	77.2	78.2	79.1	80.5	81.1	81.6	82.0	82.4	82.4	82.8
	K	2.69	4.24	6.19	8.54	11.31	14.44	18.06	22.05	26.45	31.24	36.49	42.12	48.17	54.62	61.49	68.77	76.46	84.56	93.07	
0.006	XC	99.8	99.8	99.7	99.6	99.5	99.4	99.3	99.3	99.3	99.3	99.3	99.3	99.2	99.2	99.2	99.2	99.2	99.2	99.1	99.1
	F	2.056	1.363	1.145	1.050	1.001	0.972	0.953	0.942	0.934	0.927	0.919	0.914	0.912	0.911	0.910	0.909	0.908	0.907	0.907	0.907
	A	26.0	41.3	51.8	59.0	64.1	67.8	70.6	72.8	74.6	76.0	77.2	78.2	79.1	80.5	81.1	81.6	82.1	82.5	82.5	82.8
	K	7.21	9.52	12.18	15.17	18.31	21.61	25.12	28.83	32.74	36.85	41.16	45.67	50.38	55.30	60.43	65.77	71.32	77.07	83.02	
0.007	XC	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	F	2.338	1.574	1.329	1.222	1.166	1.133	1.112	1.099	1.089	1.082	1.076	1.072	1.069	1.067	1.064	1.063	1.061	1.059	1.058	1.058
	A	26.7	41.8	52.7	59.7	64.3	67.9	70.7	72.9	74.7	76.1	77.3	78.3	79.1	80.5	81.1	81.6	82.1	82.5	82.5	82.8
	K	7.21	9.52	12.18	15.17	18.31	21.61	25.12	28.83	32.74	36.85	41.16	45.67	50.38	55.30	60.43	65.77	71.32	77.07	83.02	
0.008	XC	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	F	2.608	1.762	1.512	1.393	1.330	1.284	1.271	1.255	1.244	1.236	1.230	1.225	1.222	1.219	1.218	1.215	1.213	1.212	1.210	1.209
	A	27.4	42.3	52.5	59.5	64.4	68.1	70.8	73.0	74.7	76.1	77.3	78.3	79.2	80.6	81.1	81.6	82.1	82.5	82.5	82.8
	K	7.21	9.52	12.18	15.17	18.31	21.61	25.12	28.83	32.74	36.85	41.16	45.67	50.38	55.30	60.43	65.77	71.32	77.07	83.02	
0.010	XC	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	F	3.114	2.187	1.874	1.733	1.654	1.614	1.586	1.567	1.554	1.544	1.537	1.531	1.523	1.520	1.518	1.516	1.514	1.513	1.513	1.512
	A	28.4	43.3	53.2	59.9	64.8	68.3	71.0	73.1	74.8	76.2	77.4	78.4	79.1	80.6	81.2	81.7	82.1	82.5	82.5	82.8
	K	7.21	9.52	12.18	15.17	18.31	21.61	25.12	28.83	32.74	36.85	41.16	45.67	50.38	55.30	60.43	65.77	71.32	77.07	83.02	



CARRIERS PICKS ENDS  
16 3 4

STRUTIA.

UTAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC 79.5	49.7	35.9	28.2	23.4	20.1	17.7	16.0	14.6	13.6	12.7	12.0	11.4	10.9	10.5	10.2	9.9	9.6	9.4	9.2
	F 0.547	0.291	0.199	0.153	0.125	0.106	0.093	0.083	0.076	0.070	0.066	0.062	0.059	0.054	0.054	0.052	0.051	0.049	0.048	0.047
	A 3.6	7.1	10.4	13.6	16.8	19.8	22.8	25.6	28.2	30.8	33.2	35.5	37.7	39.8	41.7	43.5	45.2	46.9	48.4	49.8
	K 1.84	3.50	5.19	6.94	8.75	10.64	12.63	14.73	16.94	19.28	21.75	24.37	27.13	30.05	33.13	36.37	39.78	43.36	47.12	51.05
0.004	XC 91.2	61.6	45.6	36.3	30.3	26.2	23.2	20.9	19.2	17.8	16.7	15.8	15.1	14.4	13.9	13.4	13.0	12.7	12.4	12.2
	F 0.704	0.380	0.262	0.202	0.165	0.141	0.124	0.111	0.101	0.093	0.087	0.082	0.078	0.075	0.072	0.070	0.068	0.066	0.064	0.063
	A 3.9	7.3	10.5	13.8	16.9	19.9	22.9	25.7	28.3	30.9	33.3	35.6	37.8	39.8	41.8	43.6	45.3	46.9	48.5	49.9
	K 1.43	2.67	3.94	5.26	6.62	8.04	9.54	11.11	12.77	14.53	16.39	18.36	20.43	22.63	24.94	27.38	29.94	32.63	35.46	38.41
0.005	XC 97.8	71.6	54.3	43.7	36.8	31.9	28.4	25.7	23.6	21.9	20.6	19.5	18.6	17.8	17.2	16.6	16.1	15.7	15.4	15.1
	F 0.851	0.467	0.324	0.250	0.205	0.175	0.154	0.138	0.126	0.117	0.109	0.103	0.098	0.094	0.090	0.087	0.084	0.082	0.080	0.078
	A 4.0	7.4	10.7	13.9	17.0	20.1	23.0	25.6	28.5	31.0	33.4	35.7	37.9	39.9	41.8	43.7	45.4	47.0	48.5	50.0
	K 1.18	2.18	3.20	4.25	5.34	6.48	7.68	8.94	10.27	11.68	13.17	14.75	16.42	18.17	20.03	21.98	24.04	26.20	28.46	30.82
0.006	XC 100.0	79.8	62.1	50.6	42.9	37.4	33.3	30.3	27.9	25.9	24.4	23.1	22.0	21.2	20.4	19.7	19.2	18.7	18.3	17.9
	F 0.988	0.530	0.384	0.297	0.244	0.209	0.184	0.165	0.151	0.139	0.130	0.123	0.117	0.112	0.108	0.104	0.101	0.098	0.096	0.094
	A 4.2	7.5	10.8	14.0	17.2	20.2	23.1	25.9	28.6	31.1	33.5	35.8	38.0	40.0	41.9	43.7	45.4	47.1	48.6	50.0
	K 1.02	1.85	2.70	3.58	4.49	5.44	6.44	7.49	8.61	9.78	11.03	12.35	13.74	15.21	16.76	18.39	20.10	21.90	23.79	25.77
0.007	XC 100.0	86.4	69.0	56.9	48.6	42.6	38.1	34.7	32.0	29.8	28.1	26.6	25.8	24.4	23.5	22.8	22.2	21.6	21.1	20.7
	F 1.117	0.631	0.443	0.344	0.283	0.242	0.213	0.192	0.175	0.162	0.152	0.143	0.136	0.130	0.126	0.121	0.118	0.115	0.112	0.110
	A 4.3	7.6	10.9	14.2	17.3	20.3	23.2	26.0	28.7	31.2	33.6	35.9	38.0	40.1	42.0	43.8	45.5	47.1	48.6	50.1
	K 1.01	1.61	2.34	3.10	3.88	4.70	5.55	6.46	7.42	8.43	9.50	10.63	11.82	13.09	14.42	15.82	17.29	18.84	20.46	22.16
0.008	XC 100.0	91.5	75.0	62.7	53.9	47.5	42.6	38.9	35.9	33.5	31.6	30.0	28.7	27.6	26.4	25.8	25.1	24.5	23.9	23.5
	F 1.238	0.709	0.509	0.389	0.321	0.275	0.242	0.218	0.199	0.185	0.173	0.163	0.156	0.149	0.143	0.139	0.134	0.131	0.128	0.125
	A 4.4	7.8	11.1	14.3	17.4	20.4	23.3	26.1	28.8	31.3	33.7	36.0	38.1	40.1	42.1	43.9	45.6	47.2	48.7	50.1
	K 1.01	1.44	2.08	2.74	3.42	4.14	4.89	5.69	6.52	7.41	8.35	9.34	10.39	11.50	12.66	13.89	15.18	16.54	17.96	19.45
0.010	XC 100.0	98.0	84.9	72.6	63.5	56.5	51.0	46.8	43.4	40.7	38.4	36.6	35.0	33.7	32.5	31.6	30.7	30.0	29.3	28.8
	F 1.460	0.857	0.611	0.478	0.396	0.340	0.300	0.271	0.248	0.230	0.215	0.203	0.194	0.186	0.179	0.173	0.168	0.163	0.159	0.156
	A 4.7	8.0	11.3	14.5	17.6	20.7	23.6	26.3	29.0	31.5	33.9	36.1	38.3	40.3	42.2	44.0	45.7	47.3	48.8	50.2
	K 1.01	1.19	1.70	2.23	2.76	3.36	3.96	4.60	5.27	5.99	6.74	7.54	8.38	9.27	10.21	11.19	12.23	13.32	14.46	15.65

SYN.DIA.	CARRIERS			PICKS			ENDS														
	16			3			7														
DIAMETER OVER DIELECTRIC																					
0.003	SC	99.8	75.8	57.6	46.3	38.9	33.7	29.9	27.1	24.9	23.1	21.7	20.5	19.5	18.7	18.0	17.5	17.0	16.5	16.1	15.6
	F	0.957	0.508	0.349	0.267	0.218	0.186	0.163	0.146	0.133	0.123	0.115	0.108	0.103	0.099	0.095	0.091	0.089	0.086	0.084	0.082
	A	3.8	7.1	10.4	13.6	16.8	19.8	22.8	25.6	28.2	30.8	33.2	35.5	37.7	39.8	41.7	43.5	45.2	46.9	48.4	49.8
	K	1.05	2.00	2.97	3.96	5.00	6.08	7.22	8.42	9.68	11.02	12.43	13.92	15.50	17.17	18.93	20.78	22.73	24.78	26.93	29.17
0.004	SC	88.8	70.7	58.1	49.4	43.2	38.6	35.0	32.3	30.0	28.2	26.8	25.5	24.5	23.6	22.9	22.2	21.7	21.2	20.8	
	F	1.232	0.688	0.459	0.353	0.289	0.246	0.216	0.194	0.177	0.164	0.153	0.143	0.137	0.131	0.126	0.122	0.118	0.115	0.112	0.110
	A	3.9	7.3	10.5	13.8	16.9	19.9	22.9	25.7	28.3	30.9	33.3	35.6	37.8	39.8	41.8	43.6	45.3	46.9	48.5	49.9
	K	1.53	2.25	3.00	3.78	4.60	5.45	6.35	7.30	8.30	9.37	10.49	11.68	12.93	14.25	15.65	17.11	18.65	20.26	21.95	
0.005	SC	96.7	81.2	68.3	58.8	51.8	46.8	42.5	39.2	36.6	34.5	32.7	31.3	30.1	29.0	28.1	27.3	26.7	26.1	25.6	25.2
	F	1.489	0.817	0.567	0.437	0.359	0.306	0.269	0.241	0.220	0.204	0.191	0.180	0.171	0.164	0.157	0.152	0.148	0.144	0.140	0.137
	A	4.0	7.4	10.7	13.9	17.0	20.1	23.0	25.8	28.5	31.0	33.4	35.7	37.9	39.9	41.8	43.7	45.4	47.1	48.5	50.0
	K	1.24	1.83	2.43	3.05	3.70	4.39	5.11	5.87	6.68	7.53	8.43	9.38	10.39	11.45	12.56	13.74	14.97	16.26	17.61	
0.006	SC	99.9	89.2	77.0	67.2	59.7	53.9	49.4	45.8	42.8	40.4	38.4	36.8	35.4	34.2	33.1	32.2	31.5	30.8	30.2	
	F	1.730	0.963	0.672	0.520	0.427	0.365	0.321	0.289	0.264	0.244	0.228	0.215	0.205	0.196	0.189	0.182	0.177	0.172	0.168	0.164
	A	4.2	7.5	10.8	14.0	17.2	20.2	23.1	25.9	28.6	31.1	33.5	35.8	38.0	40.0	41.9	43.7	45.4	47.1	48.6	50.0
	K	1.06	1.54	2.04	2.56	3.11	3.68	4.28	4.92	5.59	6.30	7.05	7.85	8.69	9.57	10.51	11.49	12.52	13.59	14.72	
0.007	SC	94.9	84.1	74.5	66.8	60.7	55.8	51.9	48.7	46.1	43.9	42.0	40.5	39.1	38.0	37.0	36.1	35.3	34.7		
	F	1.955	1.104	0.775	0.601	0.495	0.424	0.373	0.335	0.306	0.284	0.266	0.251	0.239	0.228	0.220	0.212	0.206	0.201	0.196	0.192
	A	4.3	7.6	10.9	14.2	17.3	20.3	23.2	26.0	28.7	31.2	33.6	35.9	38.0	40.1	42.0	43.8	45.5	47.1	48.6	50.1
	K	1.34	1.77	2.22	2.68	3.17	3.69	4.24	4.82	5.43	6.07	6.76	7.48	8.24	9.04	9.88	10.76	11.69	12.66		
0.008	SC	98.4	89.8	80.8	73.1	66.9	61.8	57.6	54.2	51.4	49.0	47.0	45.3	43.9	42.6	41.5	40.6	39.7	39.0		
	F	2.167	1.281	0.875	0.681	0.562	0.482	0.424	0.382	0.349	0.323	0.303	0.286	0.272	0.261	0.251	0.242	0.235	0.229	0.223	0.219
	A	4.4	7.8	11.1	14.3	17.4	20.4	23.3	26.1	28.8	31.3	33.7	36.0	38.1	40.1	42.1	43.9	45.6	47.2	48.7	50.1
	K	1.19	1.56	1.95	2.36	2.79	3.25	3.73	4.23	4.77	5.34	5.94	6.57	7.24	7.94	8.68	9.45	10.26	11.11		
0.010	SC	97.3	90.6	83.6	77.5	72.3	67.9	64.2	61.1	58.5	56.3	54.4	52.7	51.3	50.1	49.0	48.0	47.0	46.0	45.0	44.2
	F	2.555	1.500	1.069	0.837	0.693	0.595	0.526	0.474	0.434	0.402	0.377	0.356	0.339	0.325	0.313	0.302	0.293	0.286	0.279	0.273
	A	4.7	8.0	11.3	14.5	17.6	20.7	23.6	26.3	29.0	31.5	33.9	36.1	38.3	40.3	42.2	44.0	45.7	47.3	48.8	50.2
	K	1.27	1.59	1.92	2.26	2.63	3.01	3.42	3.85	4.31	4.79	5.30	5.83	6.40	6.99	7.61	8.26	8.95			

SIR.DIA.	CARRIERS																PICKS		ENDS	
	16																3		10	
	DIAMETER OVER DIELECTRIC																			
0.003	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
SC*****	92.5	74.8	61.8	52.6	46.0	41.1	37.4	34.4	32.1	30.2	28.6	27.3	26.2	25.2	24.4	23.7	23.1	22.6	22.2	
F 1.367	0.726	0.458	0.382	0.312	0.265	0.233	0.209	0.190	0.176	0.164	0.155	0.147	0.141	0.135	0.131	0.127	0.123	0.120	0.118	
A 3.8	7.1	10.4	13.6	16.8	19.8	22.8	25.6	28.2	30.8	33.2	35.5	37.7	39.8	41.7	43.5	45.2	46.9	48.4	49.6	
K*****	1.50	2.08	2.77	3.50	4.26	5.05	5.89	6.78	7.71	8.70	9.75	10.85	12.02	13.25	14.55	15.91	17.35	18.85	20.42	
0.004	SC*****	99.8	88.1	75.4	65.5	58.0	52.2	47.7	44.2	41.3	38.9	37.0	35.3	34.0	32.8	31.8	30.9	30.2	29.5	28.9
F 1.760	0.951	0.656	0.504	0.413	0.352	0.309	0.277	0.253	0.234	0.218	0.206	0.196	0.187	0.180	0.174	0.169	0.164	0.160	0.157	
A 3.9	7.3	10.5	13.8	16.9	19.9	22.9	25.7	28.3	30.9	33.3	35.6	37.8	39.8	41.8	43.6	45.3	46.9	48.5	49.9	
K*****	1.07	1.58	2.10	2.65	3.22	3.81	4.44	5.11	5.81	6.56	7.34	8.17	9.05	9.98	10.95	11.98	13.05	14.16	15.36	
0.005	SC*****	96.4	85.9	76.2	68.3	62.1	57.1	53.1	49.8	47.1	44.8	42.9	41.3	39.9	38.7	37.7	36.8	36.0	35.3	
F 2.127	1.167	0.810	0.625	0.512	0.437	0.384	0.345	0.315	0.291	0.272	0.257	0.244	0.234	0.225	0.217	0.211	0.205	0.200	0.196	
A 4.0	7.4	10.7	13.9	17.0	20.1	23.0	25.8	28.5	31.0	33.4	35.7	37.9	39.9	41.8	43.7	45.4	47.0	48.5	50.0	
K*****	1.28	1.70	2.14	2.59	3.07	3.58	4.11	4.67	5.27	5.90	6.57	7.27	8.01	8.79	9.62	10.48	11.38	12.33		
0.006	SC*****	99.8	93.4	84.8	77.1	70.7	65.5	61.1	57.6	54.6	52.1	50.0	48.2	46.6	45.3	44.1	43.1	42.2	41.5	
F 2.471	1.376	0.960	0.743	0.610	0.522	0.459	0.412	0.377	0.348	0.326	0.308	0.293	0.280	0.269	0.260	0.253	0.246	0.240	0.235	
A 4.2	7.5	10.8	14.0	17.2	20.2	23.1	25.9	28.6	31.1	33.5	35.8	38.0	40.0	41.9	43.7	45.4	47.1	48.6	50.0	
K*****	1.08	1.43	1.79	2.14	2.58	3.00	3.48	3.91	4.41	4.94	5.49	6.08	6.70	7.35	8.04	8.76	9.52	10.31		
0.007	SC*****	98.0	91.6	84.8	78.2	72.9	68.6	64.6	61.5	58.8	56.5	54.6	52.9	51.5	50.2	49.1	48.1	47.3		
F 2.793	1.518	1.107	0.859	0.707	0.605	0.533	0.479	0.438	0.405	0.379	0.358	0.341	0.326	0.314	0.303	0.294	0.287	0.280	0.274	
A 4.3	7.6	10.9	14.2	17.3	20.3	23.2	26.0	28.7	31.2	33.6	35.9	38.0	40.1	42.0	43.8	45.5	47.1	48.6	50.1	
K*****	1.24	1.55	1.98	2.22	2.58	2.97	3.37	3.80	4.25	4.73	5.23	5.77	6.33	6.92	7.53	8.18	8.86			
0.008	SC*****	99.9	96.1	90.3	84.5	79.3	74.9	71.1	67.8	65.0	62.6	60.6	58.8	57.3	55.9	54.7	53.7	52.8		
F 3.096	1.773	1.250	0.973	0.803	0.688	0.606	0.545	0.499	0.462	0.433	0.409	0.389	0.372	0.358	0.346	0.336	0.327	0.319	0.313	
A 4.4	7.8	11.1	14.3	17.4	20.4	23.3	26.1	28.8	31.3	33.7	36.0	38.1	40.1	42.1	43.9	45.6	47.2	48.7	50.1	
K*****	1.09	1.37	1.66	1.96	2.27	2.61	2.96	3.34	3.74	4.16	4.60	5.06	5.56	6.07	6.62	7.18	7.76			
0.010	SC*****	100.0	97.8	93.8	89.5	85.5	81.9	78.7	75.9	73.4	71.2	69.4	67.7	66.3	65.0	63.8	62.8			
F 3.650	2.143	1.528	1.196	0.990	0.850	0.751	0.676	0.619	0.574	0.536	0.509	0.484	0.464	0.447	0.432	0.419	0.408	0.399	0.390	
A 4.7	8.0	11.3	14.5	17.6	20.7	23.6	26.3	29.0	31.5	33.9	36.1	38.3	40.3	42.2	44.0	45.7	47.3	48.8	50.2	
K*****	1.11	1.34	1.59	1.84	2.11	2.39	2.70	3.02	3.35	3.71	4.08	4.48	4.89	5.33	5.78	6.26				

STR. DIA.

CANNIENS PICKS ENDS  
16 9 4

DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	80.3	52.1	39.7	33.3	29.6	27.3	25.7	24.6	23.8	23.2	22.8	22.4	22.1	21.9	21.7	21.6	21.5	21.3	21.3	21.2
F	0.556	0.308	0.224	0.183	0.161	0.147	0.138	0.132	0.127	0.124	0.121	0.119	0.118	0.116	0.115	0.114	0.114	0.113	0.113	0.112
A	11.2	20.5	28.9	36.1	42.1	47.2	51.5	55.1	58.2	60.8	63.0	65.0	66.7	68.2	69.5	70.7	71.7	72.7	73.5	74.3
K	1.87	3.70	5.83	8.34	11.30	14.75	18.72	23.24	28.30	33.93	40.12	46.88	54.20	62.11	70.58	79.63	89.26	99.46	110.24	121.59
0.004	92.0	64.5	50.3	42.7	38.2	35.3	33.3	32.0	31.0	30.2	29.7	29.2	28.9	28.6	28.4	28.2	28.0	27.9	27.8	27.7
F	0.717	0.409	0.295	0.243	0.214	0.196	0.184	0.175	0.169	0.165	0.161	0.159	0.157	0.155	0.154	0.153	0.152	0.151	0.150	0.150
A	11.6	20.9	29.2	36.3	42.4	47.4	51.8	55.3	58.3	60.9	63.1	65.0	66.7	68.2	69.5	70.7	71.7	72.7	73.5	74.3
K	1.45	2.84	4.44	6.34	8.57	11.17	14.17	17.57	21.39	25.62	30.28	35.37	40.88	46.83	53.20	60.00	67.24	74.91	83.01	91.54
0.005	98.2	74.7	59.8	51.3	46.1	42.8	40.5	38.6	36.9	36.3	35.7	35.2	35.0	34.7	34.5	34.3	34.1	34.0	33.9	33.9
F	0.868	0.497	0.366	0.302	0.266	0.244	0.229	0.219	0.211	0.206	0.202	0.198	0.196	0.194	0.192	0.191	0.189	0.188	0.187	0.187
A	12.0	21.2	29.5	36.6	42.6	47.6	51.8	55.4	58.4	61.0	63.2	65.1	66.8	68.3	69.6	70.7	71.8	72.7	73.6	74.4
K	1.20	2.32	3.61	5.13	6.93	9.03	11.44	14.17	17.24	20.64	24.36	28.46	32.89	37.66	42.77	48.23	54.03	60.18	66.67	73.52
0.006	102.9	82.9	68.0	59.1	53.5	49.8	47.3	45.5	44.2	43.3	42.5	41.9	41.5	41.1	40.8	40.5	40.3	40.1	40.0	39.8
F	1.009	0.587	0.435	0.360	0.318	0.292	0.278	0.262	0.253	0.247	0.242	0.238	0.235	0.232	0.229	0.227	0.226	0.225	0.224	0.224
A	12.4	21.6	29.8	36.8	42.8	47.8	52.0	55.5	58.5	61.1	63.3	65.2	66.9	68.3	69.6	70.8	71.8	72.8	73.6	74.4
K	1.07	2.05	3.05	4.33	5.84	7.60	9.62	11.91	14.47	17.32	20.45	23.86	27.56	31.55	35.82	40.38	45.23	50.36	55.78	61.50
0.007	109.4	89.4	75.3	64.1	56.2	50.6	47.3	45.7	44.3	43.3	42.5	41.9	41.5	41.1	40.8	40.5	40.3	40.1	40.0	39.8
F	1.142	0.674	0.503	0.418	0.369	0.339	0.319	0.305	0.295	0.288	0.282	0.277	0.274	0.271	0.269	0.267	0.265	0.264	0.263	0.262
A	12.7	21.9	30.1	37.1	43.0	48.0	52.1	55.6	58.6	61.2	63.4	65.3	66.9	68.4	69.7	70.8	71.8	72.8	73.6	74.4
K	1.02	1.92	2.66	3.76	5.06	6.58	8.32	10.29	12.50	14.95	17.64	20.58	23.76	27.18	30.85	34.77	38.94	43.35	48.01	52.91
0.008	116.2	94.2	81.4	72.4	66.4	62.4	59.6	57.5	56.0	54.9	54.0	53.3	52.8	52.3	52.0	51.7	51.4	51.2	51.0	50.9
F	1.268	0.759	0.569	0.475	0.420	0.387	0.364	0.348	0.337	0.328	0.322	0.317	0.313	0.310	0.307	0.305	0.303	0.301	0.300	0.299
A	13.1	22.3	30.4	37.4	43.2	48.2	52.3	55.8	58.7	61.3	63.4	65.3	67.0	68.4	69.7	70.9	71.9	72.8	73.7	74.4
K	1.04	1.94	2.66	3.33	4.48	5.81	7.34	9.08	11.02	13.17	15.53	18.11	20.90	23.91	27.13	30.57	34.22	38.09	42.17	46.47
0.010	124.9	99.4	90.9	82.9	77.1	73.0	70.1	68.0	66.4	65.2	64.2	63.5	62.9	62.4	62.0	61.7	61.4	61.1	60.9	60.8
F	1.499	0.922	0.699	0.586	0.521	0.481	0.453	0.434	0.420	0.410	0.402	0.396	0.391	0.387	0.384	0.381	0.379	0.377	0.375	0.374
A	13.0	23.0	31.0	37.9	43.7	48.5	52.6	56.0	59.0	61.4	63.6	65.5	67.1	68.5	69.8	71.0	72.0	72.9	73.7	74.5
K	1.28	1.95	2.74	3.66	4.74	5.98	7.38	8.95	10.68	12.59	14.66	16.91	19.33	21.92	24.68	27.62	30.73	34.01	37.46	41.06

SIR, RIA.

CARRIAGES PICKS ENDS  
16 9 7

DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	99.0	78.7	63.0	53.9	48.4	44.9	42.5	40.8	39.5	38.6	37.9	37.4	36.9	36.4	36.3	36.0	35.8	35.7	35.5	35.4
F	0.973	0.539	0.391	0.321	0.282	0.257	0.241	0.230	0.222	0.217	0.212	0.209	0.206	0.204	0.202	0.200	0.199	0.198	0.197	0.196
A	11.2	20.5	28.9	36.1	42.1	47.2	51.5	55.1	58.2	60.8	63.0	65.0	66.7	68.2	69.5	70.7	71.7	72.7	73.5	74.3
K	1.07	2.12	3.33	4.77	6.46	8.43	10.70	13.28	16.17	19.39	22.92	26.79	30.97	35.50	40.33	45.50	51.00	56.83	62.99	69.48
0.004	91.4	76.7	67.0	60.8	56.7	53.9	51.9	50.5	49.4	48.5	47.9	47.3	46.9	46.6	46.3	46.0	45.8	45.6	45.5	45.5
F	1.255	0.707	0.517	0.425	0.374	0.342	0.321	0.307	0.294	0.288	0.283	0.278	0.274	0.271	0.269	0.267	0.265	0.264	0.263	0.262
A	11.6	20.9	29.2	36.3	42.4	47.4	51.7	55.3	58.3	60.9	63.1	65.0	66.7	68.2	69.5	70.7	71.7	72.7	73.5	74.3
K	1.62	2.54	3.62	4.90	6.39	8.10	10.04	12.22	14.64	17.30	20.21	23.36	26.76	30.40	34.29	38.42	42.81	47.43	52.31	57.43
0.005	98.3	87.0	77.8	71.4	67.1	64.1	61.9	60.3	59.1	58.1	57.4	56.8	56.3	55.9	55.6	55.3	55.1	54.9	54.7	54.7
F	1.518	0.869	0.640	0.529	0.466	0.426	0.401	0.383	0.370	0.360	0.353	0.347	0.343	0.339	0.336	0.334	0.332	0.330	0.328	0.327
A	12.0	21.2	29.5	36.6	42.6	47.6	51.8	55.4	58.4	61.0	63.2	65.1	66.8	68.3	69.6	70.7	71.8	72.7	73.6	74.4
K	1.32	2.06	2.93	3.96	5.16	6.54	8.10	9.85	11.80	13.93	16.27	18.79	21.52	24.44	27.56	30.88	34.39	38.10	42.01	46.01
0.006	94.3	86.3	80.3	76.0	72.9	70.7	69.0	67.7	66.7	65.9	65.3	64.8	64.4	64.0	63.7	63.5	63.3	63.1	63.1	63.1
F	1.766	1.027	0.761	0.630	0.556	0.510	0.480	0.459	0.443	0.432	0.423	0.416	0.411	0.407	0.403	0.400	0.398	0.396	0.394	0.392
A	12.4	21.6	29.8	36.8	42.8	47.8	52.0	55.5	58.5	61.1	63.3	65.2	66.9	68.3	69.6	70.8	71.8	72.8	73.6	74.4
K	1.75	2.48	3.34	4.34	5.50	6.80	8.27	9.90	11.69	13.64	15.75	18.03	20.47	23.07	25.84	28.78	31.88	35.14	38.56	42.01
0.007	98.5	92.8	87.5	83.5	80.5	78.3	76.6	75.3	74.3	73.5	72.9	72.4	71.9	71.6	71.3	71.0	70.8	70.6	70.6	70.6
F	1.999	1.180	0.879	0.731	0.646	0.594	0.559	0.534	0.517	0.503	0.493	0.486	0.479	0.474	0.470	0.467	0.464	0.462	0.460	0.458
A	12.7	21.9	30.1	37.1	43.0	48.0	52.1	55.6	58.6	61.2	63.4	65.3	66.9	68.4	69.7	70.8	71.9	72.8	73.6	74.4
K	1.52	2.15	2.89	3.76	4.75	5.88	7.14	8.54	10.04	11.74	13.57	15.53	17.63	19.87	22.25	24.77	27.43	30.24	33.19	36.24
0.008	100.0	97.1	93.0	89.5	86.8	84.8	83.2	81.9	80.9	80.2	79.5	79.0	78.6	78.2	77.9	77.7	77.5	77.3	77.3	77.3
F	2.219	1.329	0.996	0.831	0.736	0.677	0.637	0.610	0.590	0.575	0.563	0.555	0.548	0.542	0.537	0.533	0.530	0.527	0.525	0.523
A	13.1	22.3	30.4	37.4	43.2	48.2	52.3	55.8	58.7	61.3	63.4	65.3	67.0	68.4	69.7	70.9	71.9	72.8	73.7	74.4
K	1.35	1.91	2.56	3.32	4.20	5.19	6.30	7.53	8.88	10.35	11.94	13.66	15.50	17.47	19.55	21.76	24.10	26.56	29.14	31.81
0.010	99.2	97.5	95.7	94.2	93.0	92.0	91.2	90.5	90.0	89.6	89.2	88.9	88.6	88.4	88.2	88.0	87.8	87.6	87.4	87.2
F	2.623	1.614	1.223	1.026	0.913	0.841	0.793	0.760	0.735	0.717	0.703	0.693	0.684	0.677	0.671	0.666	0.662	0.659	0.656	0.654
A	13.9	23.0	31.0	37.9	43.7	48.5	52.6	56.0	59.0	61.4	63.6	65.5	67.1	68.5	69.8	71.0	72.0	72.9	73.7	74.5
K	2.09	2.71	3.42	4.22	5.11	6.10	7.19	8.38	9.66	11.04	12.52	14.10	15.78	17.56	19.43	21.41	23.49	25.66	27.92	30.27

STR. DIA.

CARRIERS PICKS FNDS  
16 9 10

DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	SC*****	94.7	80.6	70.7	64.3	60.0	57.1	55.0	53.5	52.3	51.4	50.7	50.2	49.7	49.3	49.0	48.8	48.6	48.4	48.2
	F	1.391	0.770	0.459	0.402	0.368	0.345	0.329	0.314	0.309	0.303	0.298	0.294	0.291	0.288	0.284	0.284	0.283	0.282	0.280
	A	11.2	20.5	28.9	36.1	42.1	47.2	51.5	55.1	58.2	60.8	63.0	65.0	66.7	68.2	69.5	70.7	71.7	72.7	73.5
	K	*****	1.48	2.33	3.34	4.52	5.90	7.44	9.30	11.32	13.57	16.05	18.75	21.68	24.84	28.23	31.85	35.70	39.78	44.10
0.004	SC*****	93.2	84.6	78.3	73.9	70.7	68.4	66.7	65.4	64.4	63.6	63.0	62.5	62.1	61.7	61.4	61.2	61.0	60.8	
	F	1.793	1.010	0.738	0.608	0.534	0.489	0.459	0.438	0.423	0.412	0.404	0.397	0.392	0.388	0.384	0.381	0.379	0.377	0.374
	A	11.6	20.9	29.2	36.3	42.4	47.4	51.7	55.3	58.3	60.9	63.1	65.0	66.7	68.2	69.5	70.7	71.7	72.7	73.5
	K	*****	1.78	2.53	3.43	4.47	5.67	7.03	8.56	10.25	12.11	14.15	16.35	18.73	21.28	24.00	26.90	29.96	33.20	36.62
0.005	SC*****	99.3	94.0	88.8	84.7	81.7	79.5	77.8	76.4	75.4	74.4	74.0	73.4	73.0	72.6	72.3	72.0	71.8	71.6	
	F	2.169	1.242	0.914	0.755	0.665	0.609	0.572	0.547	0.528	0.515	0.504	0.496	0.490	0.484	0.480	0.477	0.474	0.469	0.467
	A	12.0	21.2	29.5	36.6	42.6	47.6	51.8	55.4	58.4	61.0	63.2	65.1	66.8	68.3	69.6	70.7	71.3	72.7	73.6
	K	*****	1.44	2.05	2.77	3.61	4.58	5.67	6.90	8.26	9.75	11.39	13.16	15.06	17.11	19.29	21.61	24.07	26.67	29.41
0.006	SC*****	99.0	95.8	92.7	90.1	88.1	86.5	85.3	84.4	83.6	83.0	82.5	82.0	81.7	81.4	81.1	80.9	80.7		
	F	2.521	1.467	1.087	0.901	0.795	0.729	0.685	0.655	0.633	0.617	0.605	0.595	0.587	0.581	0.576	0.572	0.568	0.563	0.561
	A	12.4	21.6	29.8	36.8	42.8	47.8	52.0	55.5	58.5	61.1	63.3	65.2	66.9	68.3	69.6	70.8	71.8	72.8	73.6
	K	*****	1.73	2.34	3.04	3.85	4.76	5.79	6.93	8.18	9.55	11.02	12.62	14.33	16.15	18.09	20.14	22.31	24.60	
0.007	SC*****	99.4	97.7	95.9	94.4	93.1	92.1	91.3	90.6	90.1	89.6	89.2	88.9	88.6	88.4	88.2	88.0			
	F	2.856	1.696	1.256	1.044	0.923	0.848	0.798	0.763	0.738	0.719	0.705	0.694	0.685	0.678	0.672	0.667	0.663	0.659	0.654
	A	12.7	21.9	30.1	37.1	43.0	48.0	52.1	55.6	58.6	61.2	63.4	65.3	66.9	68.4	69.7	70.8	71.9	72.8	73.6
	K	*****	2.03	2.63	3.33	4.12	5.00	5.98	7.06	8.23	9.50	10.87	12.34	13.91	15.57	17.34	19.20	21.17		
0.008	SC*****	99.9	99.2	98.3	97.5	96.8	96.2	95.7	95.3	94.9	94.6	94.3	94.1	93.9	93.8	93.6				
	F	3.170	1.898	1.423	1.107	1.051	0.966	0.910	0.871	0.842	0.821	0.805	0.792	0.782	0.774	0.768	0.762	0.757	0.754	0.747
	A	13.1	22.3	30.4	37.4	43.2	48.2	52.3	55.8	58.7	61.3	63.4	65.3	67.0	68.4	69.7	70.9	71.9	72.8	73.7
	K	*****	2.33	2.94	3.63	4.41	5.27	6.21	7.24	8.36	9.54	10.85	12.23	13.69	15.24	16.87	18.59			
0.010	SC*****	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	F	3.748	2.305	1.748	1.466	1.304	1.201	1.133	1.085	1.051	1.025	1.005	0.989	0.977	0.967	0.959	0.952	0.946	0.942	0.934
	A	13.9	23.0	31.0	37.9	43.7	48.5	52.6	56.0	59.0	61.4	63.6	65.5	67.1	68.5	69.8	71.0	72.0	72.9	73.7
	K	*****	2.73	3.43	4.12	4.81	5.50	6.19	6.88	7.57	8.26	8.95	9.64	10.33	11.02	11.71	12.40	13.09	13.78	14.47

STR. DIA.	DIAMETER OVER DIELECTRIC																	
	CARRIERS PICKS ENDS																	
	16 15 4																	
	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.900	1.000
0.003	81.9	56.4	46.1	41.2	36.5	36.9	35.9	35.2	34.7	34.4	34.1	33.9	33.7	33.6	33.5	33.4	33.3	33.2
F	0.575	0.540	0.526	0.523	0.521	0.520	0.519	0.518	0.517	0.516	0.515	0.514	0.513	0.512	0.511	0.510	0.509	0.508
A	18.3	32.0	42.6	50.5	56.4	61.0	64.5	67.3	69.6	71.5	73.0	74.4	75.5	76.5	77.3	78.1	79.4	80.4
K	1.93	4.09	6.93	10.60	15.16	20.64	27.07	34.44	42.77	52.06	62.31	73.52	85.69	98.82	112.92	128.00	144.98	169.97
0.004	93.4	69.4	58.0	52.4	49.2	47.3	46.1	45.2	44.6	44.2	43.9	43.6	43.4	43.3	43.1	43.0	42.9	42.8
F	0.742	0.647	0.552	0.457	0.310	0.287	0.274	0.266	0.260	0.256	0.253	0.251	0.249	0.248	0.246	0.245	0.244	0.243
A	18.9	32.5	42.9	50.8	56.7	61.1	64.6	67.4	69.7	71.5	73.1	74.4	75.5	76.5	77.4	78.1	79.4	80.4
K	1.50	3.14	5.30	8.07	11.52	15.66	20.51	26.07	32.34	39.34	47.05	55.49	64.65	74.52	85.13	96.45	108.49	121.54
0.005	96.0	79.9	68.3	62.3	58.8	56.7	55.3	54.4	53.7	53.2	52.9	52.6	52.4	52.3	52.0	51.9	51.8	51.6
F	0.900	0.752	0.657	0.562	0.467	0.420	0.398	0.389	0.384	0.379	0.376	0.374	0.372	0.370	0.369	0.368	0.367	0.366
A	19.5	32.9	43.3	51.0	56.9	61.3	64.8	67.5	69.7	71.6	73.1	74.4	75.6	76.6	77.4	78.2	79.4	80.5
K	1.25	2.57	4.32	6.56	9.34	12.67	16.57	21.04	26.09	31.71	37.90	44.67	52.02	59.95	68.45	77.53	87.19	97.43
0.006	98.0	84.0	71.1	65.0	61.4	59.2	57.7	56.7	56.0	55.5	55.1	54.8	54.6	54.4	54.2	54.0	53.9	53.7
F	1.059	0.854	0.721	0.626	0.531	0.484	0.462	0.450	0.444	0.439	0.436	0.434	0.432	0.430	0.429	0.428	0.427	0.426
A	20.1	34.4	43.7	51.3	57.1	61.4	64.9	67.6	69.8	71.7	73.2	74.5	75.6	76.6	77.4	78.2	79.5	80.5
K	0.99	2.20	3.66	5.55	7.88	10.68	13.95	17.69	21.92	26.62	31.80	37.46	43.61	50.23	57.34	64.92	72.99	81.54
0.007	99.0	84.4	71.5	65.4	61.8	59.6	58.0	56.9	56.2	55.7	55.3	55.0	54.8	54.6	54.4	54.2	54.0	53.9
F	1.191	0.953	0.805	0.690	0.595	0.548	0.526	0.514	0.508	0.503	0.500	0.498	0.496	0.494	0.492	0.490	0.488	0.487
A	20.7	34.9	44.0	51.6	57.3	61.6	65.0	67.7	69.9	71.7	73.2	74.5	75.7	76.6	77.5	78.2	79.5	80.5
K	0.93	2.20	3.66	5.55	7.88	10.68	13.95	17.69	21.92	26.62	31.80	37.46	43.61	50.23	57.34	64.92	72.99	81.54
0.008	100.0	84.8	71.9	65.8	62.2	60.0	58.4	57.3	56.6	56.1	55.7	55.4	55.2	55.0	54.8	54.6	54.4	54.3
F	1.325	0.951	0.787	0.662	0.567	0.520	0.500	0.490	0.484	0.479	0.476	0.474	0.472	0.470	0.469	0.468	0.467	0.466
A	21.2	35.3	44.4	52.0	57.7	62.0	65.4	68.1	70.3	72.1	73.6	74.9	76.0	77.0	77.9	78.7	79.5	80.5
K	0.87	2.05	3.51	5.40	7.73	10.29	13.53	17.26	21.49	26.22	31.45	37.09	43.20	49.80	56.92	64.56	72.74	81.33
0.010	100.0	84.8	71.9	65.8	62.2	60.0	58.4	57.3	56.6	56.1	55.7	55.4	55.2	55.0	54.8	54.6	54.4	54.3
F	1.574	1.039	0.848	0.709	0.604	0.557	0.537	0.527	0.521	0.517	0.514	0.512	0.510	0.509	0.508	0.507	0.506	0.505
A	22.4	35.3	45.0	52.6	58.3	62.6	66.0	68.7	70.9	72.7	74.2	75.4	76.5	77.4	78.2	79.0	79.5	80.1
K	0.77	1.83	3.29	5.18	7.51	10.29	13.53	17.26	21.49	26.22	31.45	37.09	43.20	49.80	56.92	64.56	72.74	81.33

CARRIERS PICKS ENDS  
16 15 7

DIAMETER OVER DIELECTRIC

STR. DIA.

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC*****	83.6	71.4	65.0	61.3	59.1	57.6	56.6	55.9	55.4	55.0	54.7	54.5	54.3	54.1	54.0	53.9	53.8	53.8	53.7
	F 1.004	0.595	0.466	0.408	0.378	0.360	0.349	0.341	0.336	0.332	0.329	0.327	0.325	0.324	0.323	0.322	0.321	0.320	0.320	0.319
	A 18.3	32.0	42.6	50.5	56.4	61.0	64.5	67.3	69.6	71.5	73.0	74.4	75.5	76.5	77.3	78.1	78.8	79.4	79.9	80.4
	K*****	2.34	3.96	6.06	8.64	11.80	15.47	19.68	24.44	29.75	35.60	42.01	48.96	56.47	64.52	73.13	82.28	91.99	102.25	113.05
0.004	XC*****	95.3	85.3	78.0	75.3	72.9	71.4	70.3	69.5	69.0	68.5	68.2	67.9	67.7	67.6	67.4	67.3	67.2	67.1	67.0
	F 1.299	0.782	0.616	0.542	0.503	0.480	0.465	0.455	0.448	0.443	0.439	0.436	0.434	0.432	0.430	0.429	0.428	0.427	0.427	0.426
	A 18.9	32.5	42.9	50.8	56.7	61.1	64.6	67.4	69.7	71.5	73.1	74.4	75.5	76.5	77.4	78.1	78.8	79.4	79.9	80.4
	K*****	1.80	3.03	4.61	6.58	8.95	11.72	14.90	18.48	22.48	26.89	31.71	36.94	42.59	48.64	55.11	62.00	69.29	77.00	85.12
0.005	XC*****	99.9	94.5	89.4	86.1	83.9	82.4	81.4	80.6	80.0	79.6	79.3	79.0	78.8	78.6	78.5	78.4	78.3	78.2	78.1
	F 1.575	0.965	0.765	0.675	0.627	0.599	0.580	0.568	0.560	0.553	0.549	0.545	0.542	0.540	0.538	0.536	0.535	0.534	0.533	0.532
	A 19.5	32.9	43.3	51.0	56.9	61.3	64.8	67.5	69.7	71.6	73.1	74.4	75.4	76.4	77.4	78.2	78.8	79.4	79.9	80.5
	K*****	1.47	2.47	3.75	5.34	7.24	9.47	12.02	14.91	18.12	21.66	25.53	29.73	34.26	39.12	44.30	49.82	55.67	61.85	68.37
0.006	XC*****	99.2	94.2	89.3	86.3	83.8	82.0	80.7	79.8	79.2	78.7	78.3	78.0	77.6	77.4	77.3	77.2	77.1	77.0	76.9
	F 1.836	1.144	0.913	0.807	0.751	0.717	0.696	0.681	0.671	0.664	0.658	0.654	0.650	0.648	0.645	0.644	0.642	0.641	0.640	0.639
	A 20.1	33.4	43.7	51.3	57.1	61.4	64.9	67.6	69.8	71.7	73.2	74.5	75.6	76.6	77.4	78.2	78.9	79.5	79.9	80.5
	K*****	2.09	3.17	4.50	6.10	7.97	10.11	12.52	15.21	18.17	21.41	24.92	28.70	32.76	37.10	41.71	46.60	51.76	57.19	
0.007	XC*****	99.6	94.4	89.4	86.4	83.9	82.4	81.4	80.6	80.0	79.6	79.3	79.0	78.8	78.6	78.5	78.4	78.3	78.2	78.1
	F 2.084	1.318	1.058	0.938	0.874	0.836	0.811	0.794	0.783	0.774	0.768	0.763	0.759	0.755	0.753	0.751	0.749	0.748	0.746	0.745
	A 20.7	33.9	44.3	51.6	57.3	61.6	65.0	67.7	69.9	71.7	73.2	74.5	75.7	76.6	77.5	78.2	78.9	79.5	79.9	80.5
	K*****	2.76	3.91	5.29	6.90	8.75	10.82	13.13	15.68	18.46	21.48	24.74	28.23	31.95	35.91	40.11	44.55	49.21		
0.008	XC*****	100.0	99.8	99.5	99.1	98.9	98.7	98.5	98.3	98.2	98.1	98.0	97.9	97.8	97.7	97.6	97.5	97.4	97.3	97.2
	F 2.318	1.489	1.201	1.068	0.994	0.954	0.924	0.907	0.894	0.884	0.877	0.871	0.867	0.863	0.860	0.858	0.856	0.854	0.853	0.852
	A 21.2	34.3	44.4	51.8	57.5	61.8	65.1	67.8	70.0	71.8	73.3	74.6	75.7	76.7	77.5	78.2	78.9	79.5	79.9	80.5
	K*****	3.47	4.68	6.10	7.72	9.55	11.58	13.82	16.26	18.91	21.76	24.83	28.00	31.57	35.25	39.14	43.23			
0.010	XC*****	1.819	1.484	1.324	1.240	1.189	1.155	1.133	1.116	1.105	1.096	1.089	1.083	1.079	1.075	1.072	1.070	1.068	1.066	1.064
	F 2.754	1.819	1.484	1.324	1.240	1.189	1.155	1.133	1.116	1.105	1.096	1.089	1.083	1.079	1.075	1.072	1.070	1.068	1.066	1.064
	A 22.4	35.3	45.0	52.3	57.8	62.1	65.4	68.0	70.1	71.9	73.4	74.7	75.8	76.7	77.6	78.3	79.0	79.5	79.9	80.6
	K*****	4.00	5.21	6.63	8.25	10.07	12.09	14.32	16.85	19.68	22.81	26.24	29.97	33.99	38.31	42.93	47.85	52.97	58.29	63.81



STATION	CARRIERS			PICKS			ENDS													
	16	15	10	16	15	10	16	15	10											
DIAMETER OVER DIELECTRIC																				
0.003	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
F	97.7	85.8	85.6	78.8	78.4	74.9	73.8	73.0	72.4	72.0	71.6	71.4	71.1	71.0	70.8	70.7	70.6	70.5	70.5	70.4
A	18.3	32.0	42.6	50.5	56.4	61.0	64.5	67.3	69.6	71.5	73.0	74.4	75.5	76.5	77.3	78.1	78.8	79.4	79.9	80.4
K	1.64	2.77	4.24	6.06	8.26	10.83	13.78	17.11	20.82	24.92	29.41	34.27	39.53	45.17	51.19	57.60	64.39	71.57	79.15	
0.004	98.6	94.9	92.1	90.1	88.7	87.7	87.0	86.5	86.1	85.8	85.5	85.3	85.2	85.0	84.9	84.8	84.7	84.7	84.7	84.7
F	1.856	1.118	0.881	0.774	0.718	0.685	0.664	0.650	0.640	0.633	0.627	0.623	0.620	0.617	0.615	0.613	0.612	0.610	0.609	0.608
A	18.9	32.5	42.9	50.8	56.7	61.1	64.6	67.5	69.7	71.5	73.1	74.4	75.5	76.5	77.4	78.1	78.8	79.4	80.0	80.4
K	2.12	3.23	4.61	6.26	8.20	10.43	12.94	15.74	18.82	22.20	25.86	29.81	34.05	38.58	43.40	48.50	53.90	59.59		
0.005	99.9	98.9	97.9	97.1	96.1	95.6	95.3	95.1	94.9	94.8	94.6	94.5	94.5	94.4	94.3	94.3	94.3	94.3	94.3	94.3
F	2.251	1.379	1.094	0.906	0.855	0.829	0.812	0.799	0.790	0.784	0.779	0.774	0.771	0.768	0.766	0.764	0.763	0.762	0.762	0.761
A	19.5	32.9	43.3	51.0	56.9	61.3	64.8	67.5	69.7	71.6	73.1	74.4	75.6	76.6	77.4	78.2	78.8	79.4	80.0	80.5
K	2.62	3.74	5.07	6.63	8.42	10.43	12.68	15.16	17.87	20.81	23.94	27.38	31.01	34.88	38.97	43.30	47.86			
0.006	100.0	99.9	99.8	99.7	99.6	99.6	99.5	99.4	99.4	99.4	99.4	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.2
F	2.624	1.634	1.304	1.153	1.072	1.025	0.994	0.973	0.959	0.948	0.940	0.934	0.929	0.925	0.922	0.919	0.917	0.915	0.914	0.913
A	20.1	33.4	43.7	51.3	57.1	61.4	64.9	67.6	69.8	71.7	73.2	74.5	75.6	76.6	77.4	78.2	78.9	79.5	80.0	80.5
K	5.58	7.08	8.77	10.65	12.72	14.99	17.44	20.09	22.93	25.97	29.20	32.62	36.23	40.04						
0.007	1.483	1.511	1.340	1.248	1.194	1.159	1.135	1.118	1.106	1.097	1.089	1.084	1.079	1.076	1.073	1.070	1.068	1.066	1.065	
F	2.977	1.883	1.511	1.340	1.248	1.194	1.159	1.135	1.118	1.106	1.097	1.089	1.084	1.079	1.076	1.073	1.070	1.068	1.066	1.065
A	20.7	33.9	44.0	51.6	57.3	61.6	65.0	67.7	69.9	71.7	73.2	74.5	75.7	76.6	77.5	78.2	78.9	79.5	80.0	80.5
K	5.58	7.08	8.77	10.65	12.72	14.99	17.44	20.09	22.93	25.97	29.20	32.62	36.23	40.04						
0.008	1.312	1.271	1.166	1.062	0.958	0.854	0.750	0.646	0.542	0.438	0.334	0.230	0.126	0.022	0.018	0.014	0.010	0.006	0.002	
F	3.312	2.127	1.716	1.526	1.424	1.362	1.323	1.296	1.277	1.263	1.253	1.245	1.234	1.233	1.229	1.226	1.223	1.220	1.215	1.217
A	21.2	34.3	44.4	51.8	57.5	61.8	65.1	67.8	70.0	71.8	73.3	74.6	75.7	76.7	77.5	78.2	78.9	79.5	80.0	80.5
K	5.58	7.08	8.77	10.65	12.72	14.99	17.44	20.09	22.93	25.97	29.20	32.62	36.23	40.04						
0.010	1.3935	1.299	1.172	1.068	0.964	0.860	0.756	0.652	0.548	0.444	0.340	0.236	0.132	0.028	0.024	0.020	0.016	0.012	0.008	
F	3.935	2.599	2.120	1.895	1.772	1.698	1.650	1.618	1.595	1.578	1.565	1.555	1.547	1.541	1.536	1.532	1.528	1.525	1.523	1.521
A	22.4	35.3	45.0	52.3	57.8	62.1	65.4	68.0	70.1	71.9	73.4	74.7	75.4	76.7	77.6	78.3	79.0	79.5	80.1	80.6
K	5.58	7.08	8.77	10.65	12.72	14.99	17.44	20.09	22.93	25.97	29.20	32.62	36.23	40.04						

STR.DIA.

CANNIERS PICKS ENDS  
24 3 4

WIAPIER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC 96.7	68.0	50.4	40.0	33.2	26.4	25.0	22.3	20.2	18.5	17.2	16.1	15.1	14.3	13.6	13.0	12.5	12.0	11.6	11.3
	F 0.819	0.434	0.296	0.225	0.183	0.154	0.134	0.118	0.107	0.097	0.090	0.084	0.078	0.074	0.071	0.067	0.065	0.062	0.060	0.058
	A 2.5	4.8	7.0	9.2	11.4	13.5	15.6	17.7	19.7	21.7	23.6	25.5	27.3	29.0	30.7	32.3	33.9	35.4	36.9	38.3
	K 1.22	2.32	3.43	4.55	5.70	6.87	8.08	9.30	10.57	11.88	13.24	14.64	16.10	17.61	19.18	20.81	22.50	24.26	26.08	27.97
0.004	XC *****	81.3	62.8	50.7	42.5	36.7	32.3	29.0	26.4	24.2	22.5	21.0	19.8	18.8	17.9	17.1	16.4	15.9	15.3	14.9
	F 1.055	0.568	0.390	0.294	0.242	0.204	0.177	0.157	0.142	0.130	0.120	0.111	0.105	0.099	0.094	0.090	0.086	0.083	0.080	0.077
	A 2.6	4.8	7.1	9.3	11.5	13.6	15.7	17.8	19.8	21.8	23.7	25.5	27.3	29.1	30.8	32.4	34.0	35.5	37.0	38.4
	K *****	1.77	2.61	3.45	4.31	5.18	6.09	7.01	7.96	8.95	9.97	11.02	12.12	13.26	14.43	15.66	16.93	18.25	19.62	21.04
0.005	XC *****	90.8	73.1	60.1	51.0	44.3	39.2	35.3	32.2	29.7	27.6	25.8	24.4	23.1	22.0	21.1	20.3	19.6	18.9	18.4
	F 1.275	0.697	0.481	0.369	0.300	0.254	0.221	0.196	0.177	0.161	0.149	0.139	0.130	0.123	0.117	0.112	0.107	0.103	0.100	0.097
	A 2.7	4.9	7.2	9.4	11.5	13.7	15.8	17.8	19.9	21.8	23.7	25.6	27.4	29.1	30.8	32.5	34.0	35.6	37.0	38.4
	K *****	1.45	2.11	2.79	3.47	4.18	4.90	5.64	6.40	7.19	8.01	8.85	9.73	10.64	11.59	12.57	13.58	14.64	15.74	16.88
0.006	XC *****	96.8	81.5	68.5	58.7	51.4	45.7	41.3	37.8	34.9	32.5	30.5	28.8	27.3	26.1	25.0	24.0	23.2	22.5	21.8
	F 1.480	0.822	0.570	0.438	0.357	0.303	0.263	0.234	0.211	0.193	0.178	0.166	0.156	0.148	0.140	0.134	0.128	0.124	0.119	0.116
	A 2.8	5.0	7.3	9.5	11.6	13.8	15.9	17.9	19.9	21.9	23.8	25.7	27.5	29.2	30.9	32.5	34.1	35.6	37.1	38.5
	K *****	1.23	1.78	2.34	2.92	3.50	4.11	4.72	5.36	6.02	6.70	7.41	8.14	8.90	9.69	10.51	11.36	12.24	13.15	14.10
0.007	XC *****	99.74	88.3	75.7	65.6	57.9	51.8	47.0	43.0	39.8	37.2	34.9	33.0	31.4	30.0	28.8	27.7	26.7	25.9	25.1
	F 1.673	0.942	0.658	0.507	0.414	0.351	0.306	0.272	0.245	0.224	0.207	0.193	0.182	0.172	0.163	0.156	0.150	0.144	0.138	0.135
	A 2.9	5.1	7.3	9.5	11.7	13.9	16.0	18.0	20.0	22.0	23.9	25.7	27.5	29.3	31.0	32.6	34.2	35.7	37.1	38.5
	K *****	1.07	1.55	2.03	2.52	3.02	3.54	4.07	4.62	5.18	5.77	6.37	7.00	7.65	8.33	9.03	9.76	10.52	11.31	12.12
0.008	XC *****	93.4	81.8	71.9	63.8	57.4	52.3	48.1	44.6	41.7	39.2	37.1	35.3	33.8	32.4	31.2	30.1	29.2	28.4	
	F 1.854	1.058	0.743	0.574	0.469	0.399	0.347	0.309	0.279	0.256	0.234	0.220	0.207	0.196	0.186	0.178	0.171	0.164	0.159	0.154
	A 3.0	5.2	7.4	9.6	11.8	13.9	16.0	18.1	20.1	22.1	24.0	25.8	27.6	29.2	31.0	32.7	34.2	35.7	37.2	38.6
	K *****	1.37	1.79	2.22	2.66	3.12	3.58	4.06	4.56	5.07	5.60	6.15	6.72	7.31	7.93	8.57	9.23	9.92	10.63	
0.010	XC *****	99.1	91.3	82.2	74.2	67.5	61.9	57.3	53.4	50.1	47.3	44.9	42.8	41.0	39.4	38.0	36.8	35.7	34.7	
	F 2.186	1.279	0.907	0.705	0.578	0.492	0.430	0.383	0.347	0.317	0.294	0.274	0.258	0.242	0.228	0.213	0.205	0.198	0.192	
	A 3.1	5.4	7.6	9.8	12.0	14.1	16.2	18.3	20.3	22.2	24.1	26.0	27.8	29.5	31.2	32.8	34.3	35.9	37.3	38.7
	K *****	1.12	1.46	1.81	2.16	2.52	2.89	3.28	3.68	4.09	4.51	4.94	5.41	5.86	6.34	6.80	7.23	7.68	8.15	

STR.DIA.	DIAMETER OVER DIELECTRIC																			
	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC*****	94.2	76.8	63.3	53.7	46.7	41.5	37.2	33.9	31.2	29.0	27.2	25.6	24.3	23.2	22.2	21.3	20.6	19.9	19.3
	F 1.414	0.759	0.518	0.394	0.320	0.270	0.232	0.207	0.187	0.171	0.157	0.147	0.138	0.130	0.123	0.118	0.113	0.109	0.105	0.102
	A 2.5	4.8	7.0	9.2	11.4	13.5	15.6	17.7	19.7	21.7	23.6	25.5	27.3	29.0	30.7	32.3	33.9	35.4	36.9	38.3
	K*****	1.33	1.96	2.60	3.26	3.92	4.61	5.31	6.04	6.79	7.56	8.37	9.20	10.06	10.96	11.89	12.86	13.86	14.90	15.98
0.004	XC*****	100.0	89.9	77.1	66.7	58.7	52.4	47.5	43.5	40.2	37.5	35.2	33.2	31.6	30.1	28.9	27.8	26.8	26.0	25.2
	F 1.866	0.994	0.682	0.521	0.423	0.357	0.310	0.275	0.248	0.227	0.209	0.195	0.183	0.173	0.164	0.157	0.150	0.145	0.140	0.135
	A 2.6	4.8	7.1	9.3	11.5	13.6	15.7	17.8	19.8	21.8	23.7	25.5	27.3	29.1	30.8	32.4	34.0	35.5	37.0	38.4
	K*****	1.01	1.49	1.97	2.46	2.96	3.48	4.01	4.55	5.11	5.70	6.30	6.93	7.57	8.25	8.95	9.67	10.43	11.21	12.02
0.005	XC*****	97.5	87.4	77.2	69.1	62.3	56.8	52.3	48.5	45.4	42.7	40.2	38.5	36.8	35.3	34.0	32.9	31.8	30.9	
	F 2.231	1.220	0.842	0.645	0.525	0.444	0.386	0.343	0.309	0.282	0.261	0.243	0.228	0.216	0.205	0.196	0.188	0.181	0.174	0.169
	A 2.7	4.9	7.2	9.4	11.5	13.7	15.8	17.8	19.9	21.8	23.7	25.6	27.4	29.1	30.8	32.5	34.0	35.6	37.0	38.4
	K*****	1.21	1.59	1.98	2.39	2.80	3.22	3.66	4.11	4.58	5.06	5.56	6.08	6.62	7.18	7.76	8.37	8.99	9.64	
0.006	XC*****	100.0	94.6	85.9	77.9	70.9	65.1	60.2	56.1	52.7	49.7	47.2	45.0	43.1	41.4	39.9	38.6	37.4	36.4	
	F 2.591	1.438	0.998	0.767	0.625	0.529	0.451	0.409	0.369	0.336	0.312	0.291	0.273	0.258	0.245	0.234	0.225	0.216	0.209	0.203
	A 2.8	5.0	7.3	9.5	11.6	13.8	15.9	17.9	19.9	21.9	23.8	25.7	27.5	29.2	30.9	32.5	34.1	35.6	37.1	38.5
	K*****	1.02	1.34	1.67	2.00	2.35	2.70	3.06	3.44	3.83	4.23	4.65	5.08	5.54	6.00	6.49	6.99	7.52	8.06	
0.007	XC*****	98.7	92.4	85.1	78.4	72.5	67.4	63.1	59.4	56.2	53.5	51.1	49.0	47.1	45.5	44.1	42.8	41.6		
	F 2.928	1.648	1.151	0.887	0.724	0.614	0.535	0.475	0.429	0.393	0.363	0.338	0.318	0.301	0.286	0.273	0.262	0.252	0.244	0.236
	A 2.9	5.1	7.3	9.5	11.7	13.9	16.0	18.0	20.0	22.0	23.9	25.7	27.5	29.3	31.0	32.6	34.2	35.7	37.1	38.5
	K*****	1.16	1.44	1.73	2.02	2.33	2.64	2.96	3.30	3.64	4.00	4.37	4.76	5.16	5.58	6.01	6.46	6.93		
0.008	XC*****	96.8	90.8	84.6	78.9	73.9	69.5	65.6	62.3	59.4	56.8	54.6	52.6	50.8	49.3	47.9	46.6			
	F 3.245	1.852	1.299	1.004	0.822	0.697	0.608	0.541	0.489	0.447	0.414	0.386	0.362	0.343	0.326	0.311	0.299	0.288	0.278	0.269
	A 3.0	5.2	7.4	9.6	11.8	13.9	16.0	18.1	20.1	22.1	24.0	25.8	27.6	29.4	31.0	32.7	34.2	35.7	37.2	38.6
	K*****	1.27	1.59	1.92	2.27	2.63	2.99	3.36	3.74	4.12	4.50	4.89	5.28	5.68	6.09	6.51	6.94	7.37	7.80	
0.010	XC*****	98.1	93.9	89.1	84.5	80.2	76.4	72.9	69.9	67.1	64.7	62.5	60.6	58.9	57.3	55.9				
	F 3.625	2.238	1.587	1.233	1.012	0.862	0.753	0.670	0.606	0.555	0.514	0.480	0.451	0.427	0.406	0.388	0.372	0.359	0.347	0.336
	A 3.1	5.4	7.6	9.8	12.0	14.1	16.2	18.3	20.3	22.2	24.1	26.0	27.8	29.5	31.2	32.8	34.3	35.9	37.3	38.7
	K*****	1.23	1.44	1.65	1.87	2.10	2.34	2.58	2.83	3.09	3.37	3.65	3.94	4.25	4.56	4.89				

SIR.DIA.

DIAMETER OVER DIELECTRIC

CARRIERS PICKS ENDS  
24 3 10

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC	93.2	80.9	70.5	62.2	55.7	50.5	46.3	42.8	39.9	37.5	35.4	33.7	32.1	30.8	29.7	28.6	27.7	26.9	
	F	2.048	1.085	0.740	0.564	0.457	0.385	0.334	0.298	0.267	0.244	0.225	0.209	0.197	0.186	0.176	0.168	0.161	0.155	0.145
	A	2.5	4.8	7.0	9.2	11.4	13.5	15.6	17.7	19.7	21.7	23.6	25.5	27.3	29.0	30.7	32.3	33.9	35.4	36.9
	K	1.37	1.82	2.28	2.75	3.24	3.72	4.23	4.75	5.29	5.86	6.44	7.04	7.67	8.32	9.00	9.70	10.43	11.19	
0.004	XC	95.9	81.5	69.3	58.4	49.0	41.2	35.2	30.8	27.5	24.9	22.8	21.1	19.7	18.4	17.2	16.1	15.1	14.2	
	F	2.637	1.420	0.974	0.604	0.404	0.303	0.255	0.224	0.199	0.178	0.161	0.147	0.135	0.124	0.115	0.107	0.100	0.093	
	A	2.6	4.8	7.1	9.3	11.5	13.6	15.7	17.8	19.8	21.8	23.7	25.5	27.3	29.1	30.8	32.4	34.0	35.5	37.0
	K	1.04	1.38	1.72	2.07	2.43	2.80	3.19	3.58	3.99	4.41	4.85	5.30	5.77	6.26	6.77	7.30	7.85	8.41	
0.005	XC	95.4	81.0	69.0	58.4	49.0	41.2	35.2	30.8	27.5	24.9	22.8	21.1	19.7	18.4	17.2	16.1	15.1	14.2	
	F	3.187	1.743	1.203	0.822	0.750	0.634	0.551	0.489	0.441	0.403	0.373	0.347	0.326	0.308	0.293	0.279	0.268	0.258	0.247
	A	2.7	4.9	7.2	9.4	11.5	13.7	15.8	17.8	19.9	21.8	23.7	25.6	27.4	29.1	30.8	32.5	34.0	35.6	37.0
	K	1.11	1.39	1.67	1.96	2.26	2.56	2.88	3.20	3.54	3.89	4.26	4.63	5.03	5.43	5.86	6.30	6.75		
0.006	XC	98.9	84.1	71.9	60.3	50.9	43.2	37.2	32.8	29.0	26.2	23.9	22.0	20.4	19.0	17.7	16.5	15.4	14.4	
	F	3.701	2.058	1.426	0.985	0.893	0.756	0.658	0.585	0.528	0.482	0.446	0.415	0.390	0.369	0.351	0.335	0.321	0.309	0.299
	A	2.8	5.0	7.3	9.5	11.6	13.8	15.9	17.9	19.9	21.9	23.8	25.7	27.5	29.2	30.9	32.5	34.1	35.6	37.1
	K	1.17	1.40	1.64	1.89	2.14	2.41	2.68	2.96	3.24	3.54	3.87	4.20	4.54	4.89	5.26	5.64			
0.007	XC	98.5	84.1	71.9	60.3	50.9	43.2	37.2	32.8	29.0	26.2	23.9	22.0	20.4	19.0	17.7	16.5	15.4	14.4	
	F	4.183	2.355	1.644	1.267	1.034	0.817	0.764	0.679	0.613	0.561	0.519	0.483	0.454	0.429	0.408	0.390	0.374	0.360	0.348
	A	2.9	5.1	7.3	9.5	11.7	13.9	16.0	18.0	20.0	22.0	23.9	25.7	27.5	29.3	31.0	32.6	34.2	35.7	37.1
	K	1.21	1.42	1.63	1.85	2.07	2.31	2.55	2.80	3.06	3.33	3.61	3.91	4.21	4.52	4.85				
0.008	XC	100.0	85.3	73.0	61.0	51.0	43.2	37.2	32.8	29.0	26.2	23.9	22.0	20.4	19.0	17.7	16.5	15.4	14.4	
	F	4.636	2.605	1.856	1.435	1.174	0.964	0.869	0.773	0.698	0.639	0.591	0.551	0.518	0.490	0.466	0.445	0.427	0.411	0.397
	A	3.0	5.2	7.4	9.6	11.8	13.9	16.0	18.1	20.1	22.1	24.0	25.8	27.6	29.4	31.0	32.7	34.2	35.7	37.2
	K	1.07	1.25	1.43	1.62	1.82	2.03	2.24	2.46	2.69	2.93	3.17	3.43	3.69	3.97	4.25				
0.010	XC	99.8	85.2	73.0	61.0	51.0	43.2	37.2	32.8	29.0	26.2	23.9	22.0	20.4	19.0	17.7	16.5	15.4	14.4	
	F	5.465	3.197	2.267	1.762	1.446	1.231	1.075	0.958	0.866	0.793	0.734	0.685	0.644	0.609	0.580	0.554	0.532	0.512	0.495
	A	3.1	5.4	7.6	9.8	12.0	14.1	16.2	18.3	20.3	22.2	24.1	26.0	27.8	29.5	31.2	32.8	34.3	35.9	37.3
	K	1.16	1.31	1.47	1.63	1.81	1.98	2.17	2.36	2.55	2.76	2.97	3.19	3.42						

CAMIFMS PICKS EINDS  
24 y 4

## STR.DIA.

## DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000								
0.003	XC 97.0 69.3 52.8 43.3 37.4 33.5 30.8 28.8 27.3 26.2 25.3 24.6 24.1 23.6 23.2 22.9 22.7 22.4 22.2 22.1	F 0.828 0.446 0.313 0.247 0.209 0.185 0.168 0.156 0.148 0.141 0.136 0.132 0.129 0.126 0.124 0.122 0.121 0.119 0.118 0.117	A 7.5 14.0 20.2 25.9 31.1 35.8 40.6 43.7 47.1 50.0 52.6 55.0 57.1 59.0 60.7 62.2 63.6 64.9 66.1 67.1	K 1.23 2.30 3.63 5.00 6.52 8.23 10.14 12.26 14.60 17.18 19.59 23.05 26.35 29.80 33.69 37.74 42.04 46.59 51.40 56.46	XC 82.7 65.5 58.7 47.8 43.0 39.7 37.2 35.4 34.0 32.9 32.0 31.3 30.8 30.3 29.9 29.5 29.3 29.0 28.8	F 1.064 0.584 0.413 0.327 0.277 0.245 0.223 0.208 0.196 0.188 0.181 0.176 0.171 0.168 0.165 0.163 0.161 0.159 0.157 0.156	A 7.8 14.3 20.4 26.1 31.3 36.0 40.1 43.9 47.2 50.1 52.7 55.1 57.2 59.1 60.8 62.3 63.7 64.9 66.1 67.2	K 1.82 2.76 3.79 4.94 6.23 7.66 9.26 11.03 12.96 15.08 17.38 19.86 22.53 25.39 28.43 31.66 35.09 38.70 42.50	XC 92.0 76.0 68.7 57.0 51.7 47.9 45.1 43.0 41.4 40.1 39.0 38.2 37.5 37.0 36.5 36.1 35.8 35.5 35.2	F 1.286 0.717 0.510 0.406 0.345 0.305 0.278 0.259 0.245 0.234 0.226 0.219 0.214 0.210 0.206 0.203 0.201 0.199 0.197 0.195	A 8.0 14.5 20.7 26.3 31.5 36.1 40.3 44.0 47.3 50.2 52.8 55.2 57.3 59.1 60.8 62.3 63.7 65.0 66.1 67.2	K 1.49 2.24 3.07 3.99 5.03 6.18 7.46 8.88 10.44 12.14 13.98 15.97 18.11 20.40 22.85 25.44 28.18 31.08 34.13	XC 97.6 80.5 73.3 65.3 59.6 55.5 52.4 50.1 48.2 46.8 45.7 44.7 44.0 43.3 42.8 42.4 42.0 41.6 41.4	F 1.478 0.847 0.605 0.483 0.411 0.365 0.333 0.310 0.293 0.281 0.271 0.263 0.257 0.251 0.247 0.244 0.241 0.238 0.236 0.234	A 8.2 14.8 20.9 26.5 31.7 36.3 40.5 44.1 47.4 50.3 52.9 55.3 57.3 59.2 60.9 62.4 63.8 65.0 66.2 67.2	K 1.26 1.89 2.59 3.36 4.22 5.19 6.26 7.45 8.75 10.17 11.71 13.38 15.17 17.08 19.12 21.29 23.58 26.00 28.54	XC 99.9 90.9 80.6 72.7 66.8 62.4 59.2 56.6 54.7 53.1 51.0 50.9 50.0 49.3 48.8 48.3 47.8 47.5 47.2	F 1.690 0.971 0.699 0.560 0.477 0.424 0.387 0.361 0.342 0.327 0.315 0.306 0.299 0.293 0.288 0.284 0.281 0.278 0.275 0.273	A 8.4 15.0 21.1 26.8 31.9 36.5 40.6 44.3 47.6 50.5 53.0 55.3 57.6 59.3 60.9 62.5 63.8 65.1 66.2 67.3	K 1.10 1.64 2.24 2.91 3.65 4.48 5.41 6.43 7.55 8.77 10.10 11.53 13.07 14.71 16.46 18.32 20.29 22.37 24.56	XC 95.6 86.7 79.1 73.2 68.8 65.4 62.7 60.7 59.0 57.7 56.6 55.8 55.0 54.4 53.9 53.4 53.0 52.7	F 1.874 1.092 0.791 0.635 0.542 0.482 0.441 0.411 0.390 0.373 0.360 0.350 0.342 0.335 0.329 0.325 0.321 0.317 0.315 0.312	A 8.8 15.3 21.4 27.0 32.1 36.7 40.8 44.4 47.7 50.6 53.1 55.4 57.5 59.3 61.0 62.5 63.9 65.1 66.3 67.3	K 1.46 1.98 2.57 3.22 3.95 4.77 5.66 6.65 7.72 8.88 10.14 11.49 12.93 14.47 16.10 17.83 19.65 21.56	XC 99.9 95.3 89.2 83.8 79.6 76.2 73.5 71.3 69.6 68.2 67.1 66.1 65.3 64.6 64.1 63.6 63.1 62.8	F 2.212 1.323 0.968 0.782 0.671 0.598 0.548 0.512 0.485 0.465 0.449 0.436 0.426 0.418 0.411 0.405 0.401 0.396 0.393 0.390	A 9.4 15.8 21.8 27.4 32.5 37.0 41.1 44.7 47.9 50.8 53.3 55.6 57.6 59.5 61.1 62.6 64.0 65.2 66.4 67.4	K 1.20 1.62 2.09 2.52 3.21 3.87 4.59 5.38 6.25 7.18 8.19 9.28 10.44 11.68 12.99 14.37 15.84 17.38

STR. DIA.

DIAMETER OVER DIELECTRIC

CARRIERS PICKS ENDS  
24 9 7

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
U.003	3C*****	95.2	79.6	67.8	59.2	54.2	50.2	47.2	45.0	43.3	41.9	40.8	40.0	39.2	38.7	38.2	37.7	37.4	37.1	36.8
	F 1.445	0.780	0.548	0.433	0.366	0.323	0.294	0.273	0.258	0.247	0.238	0.231	0.225	0.221	0.217	0.214	0.211	0.209	0.207	0.205
	A 7.5	14.0	20.2	25.9	31.1	35.8	40.0	43.7	47.1	50.0	52.6	55.0	57.1	59.0	60.7	62.2	63.6	64.9	66.1	67.1
	K*****	1.36	2.07	2.85	3.73	4.70	5.79	7.00	8.34	9.82	11.42	13.17	15.06	17.08	19.25	21.57	24.02	26.63	29.37	32.26
U.004	3C*****	92.3	81.7	73.3	67.4	62.9	59.5	56.9	54.9	53.3	52.0	51.0	50.1	49.4	48.8	48.1	47.9	47.5	47.2	
	F 1.861	1.022	0.722	0.573	0.435	0.329	0.251	0.194	0.154	0.127	0.107	0.090	0.078	0.069	0.062	0.057	0.053	0.050	0.047	
	A 7.8	14.3	20.4	26.1	31.3	36.0	40.1	43.9	47.2	50.1	52.7	55.1	57.2	59.1	60.8	62.3	63.7	64.9	66.1	67.2
	K*****	1.58	2.17	2.82	3.56	4.38	5.29	6.30	7.41	8.62	9.93	11.35	12.88	14.51	16.25	18.09	20.05	22.11	24.29	
U.005	3C*****	98.9	91.6	84.2	78.3	73.7	70.1	67.3	65.2	63.4	62.0	60.9	59.9	59.1	58.5	57.9	57.4	57.0	56.7	
	F 2.250	1.256	0.893	0.710	0.603	0.534	0.487	0.453	0.429	0.410	0.395	0.384	0.375	0.367	0.361	0.356	0.351	0.348	0.344	0.342
	A 8.0	14.5	20.7	26.3	31.5	36.1	40.3	44.0	47.3	50.2	52.8	55.2	57.3	59.1	60.8	62.3	63.7	65.0	66.1	67.2
	K*****	1.28	1.75	2.28	2.87	3.53	4.26	5.07	5.96	6.93	7.99	9.13	10.35	11.66	13.05	14.54	16.10	17.76	19.50	
U.006	3C*****	97.6	92.1	83.9	78.6	73.7	70.1	67.3	65.2	63.4	62.0	60.9	59.9	59.1	58.5	57.9	57.4	57.0	56.7	
	F 2.615	1.481	1.060	0.846	0.720	0.638	0.582	0.543	0.513	0.491	0.474	0.460	0.449	0.440	0.433	0.427	0.421	0.417	0.413	0.410
	A 8.3	14.8	20.9	26.5	31.7	36.3	40.5	44.1	47.4	50.3	52.9	55.3	57.3	59.2	60.9	62.4	63.8	65.0	66.2	67.2
	K*****	1.48	1.92	2.41	2.97	3.58	4.26	5.00	5.81	6.69	7.65	8.67	9.76	10.93	12.16	13.47	14.86	16.31		
U.007	3C*****	100.0	97.3	93.3	89.6	86.4	83.8	81.7	79.9	78.5	77.3	76.3	75.4	74.7	74.1	73.6	73.2	72.8		
	F 2.958	1.700	1.223	0.980	0.835	0.741	0.677	0.632	0.598	0.572	0.552	0.536	0.523	0.513	0.504	0.497	0.491	0.486	0.482	0.478
	A 8.6	15.0	21.1	26.8	31.9	36.5	40.6	44.3	47.6	50.5	53.0	55.3	57.4	59.3	60.9	62.5	63.8	65.1	66.2	67.3
	K*****	1.28	1.66	2.09	2.56	3.09	3.67	4.31	5.01	5.77	6.50	7.27	8.07	8.91	9.76	10.67	11.60	12.78	14.03	
U.008	3C*****	99.7	97.1	94.8	92.2	89.9	87.9	86.3	84.9	83.8	82.9	82.0	81.3	80.8	80.2	79.8	79.4			
	F 3.280	1.912	1.384	1.111	0.949	0.844	0.772	0.720	0.682	0.653	0.630	0.612	0.598	0.586	0.576	0.568	0.561	0.555	0.550	0.546
	A 8.8	15.3	21.4	27.0	32.1	36.7	40.8	44.4	47.7	50.6	53.1	55.4	57.5	59.3	61.0	62.5	63.9	65.1	66.3	67.3
	K*****	1.47	1.84	2.26	2.72	3.24	3.80	4.41	5.08	5.79	6.56	7.39	8.27	9.20	10.19	11.23	12.32			
U.010	3C*****	99.8	97.9	96.5	95.4	94.4	93.5	92.8	92.1	91.6	91.1	90.6	90.2	89.9						
	F 3.871	2.316	1.694	1.369	1.174	1.046	0.959	0.896	0.849	0.813	0.785	0.763	0.746	0.731	0.719	0.709	0.701	0.694	0.688	0.682
	A 9.4	15.8	21.8	27.4	32.5	37.0	41.1	44.7	47.9	50.8	53.3	55.4	57.6	59.5	61.1	62.6	64.0	65.2	66.4	67.4
	K*****	1.84	2.21	2.62	3.08	3.57	4.11	4.68	5.30	5.97	6.67	7.42	8.21	9.05						

	CARRIERS																								ENDS		
	24																								9	10	
STR. DIA.	DIAMETER OVER DIELECTRIC																										
	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000							
0.003	SC.....	95.3	85.4	77.2	71.0	66.4	62.9	60.2	58.1	56.4	55.1	54.0	53.1	52.3	51.7	51.2	50.7	50.4	50.0								
	F 2.064	1.114	0.783	0.523	0.462	0.420	0.391	0.369	0.352	0.340	0.330	0.322	0.315	0.310	0.305	0.301	0.298	0.295	0.293								
	A 7.5	14.0	20.2	25.9	31.1	35.8	40.0	43.7	47.1	50.0	52.6	55.0	57.1	59.0	60.7	62.2	63.6	64.9	66.1	67.1							
	K.....	1.45	2.00	2.61	3.29	4.05	4.90	5.82	6.87	8.00	9.22	10.52	11.86	13.24	15.10	16.82	18.64	20.56	22.50								
0.004	SC.....	96.7	90.6	85.0	80.5	76.9	74.1	71.8	70.0	68.5	67.3	66.3	65.5	64.8	64.2	63.7	63.2	62.9									
	F 2.659	1.460	1.032	0.693	0.613	0.558	0.519	0.491	0.469	0.452	0.439	0.428	0.420	0.413	0.407	0.402	0.397	0.394	0.391								
	A 7.8	14.3	20.4	26.1	31.3	36.0	40.1	43.9	47.2	50.1	52.7	55.1	57.2	59.1	60.8	62.3	63.7	64.9	66.1	67.2							
	K.....	1.52	1.98	2.49	3.07	3.70	4.41	5.19	6.03	6.95	7.95	9.01	10.15	11.37	12.67	14.03	15.48	17.00									
0.005	SC.....	98.1	92.2	87.2	82.7	78.7	75.0	72.8	71.0	70.6	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4								
	F 3.215	1.794	1.276	0.861	0.763	0.696	0.648	0.612	0.585	0.565	0.548	0.535	0.524	0.515	0.508	0.502	0.497	0.492	0.488								
	A 8.0	14.5	20.7	26.3	31.5	36.1	40.3	44.0	47.3	50.2	52.8	55.2	57.3	59.1	60.8	62.3	63.7	65.0	66.1	67.2							
	K.....	1.60	2.01	2.47	2.98	3.55	4.17	4.85	5.59	6.39	7.25	8.16	9.14	10.18	11.27	12.43	13.65										
0.006	SC.....	99.2	93.2	88.2	83.7	79.7	76.0	73.8	72.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6								
	F 3.736	2.116	1.514	1.028	0.912	0.832	0.775	0.733	0.701	0.677	0.657	0.641	0.629	0.618	0.609	0.602	0.596	0.590	0.586								
	A 8.3	14.8	20.9	26.5	31.7	36.3	40.5	44.1	47.4	50.3	52.9	55.3	57.3	59.2	60.9	62.4	63.8	65.0	66.2	67.2							
	K.....	1.69	2.08	2.51	2.98	3.50	4.07	4.69	5.35	6.07	6.83	7.65	8.51	9.43	10.40	11.42											
0.007	SC.....	99.9	93.9	88.9	84.4	80.4	76.7	74.5	72.7	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3								
	F 4.225	2.429	1.748	1.206	1.093	1.059	0.968	0.902	0.854	0.817	0.788	0.766	0.748	0.733	0.721	0.710	0.702	0.695	0.688	0.683							
	A 8.6	15.0	21.1	26.8	31.9	36.5	40.6	44.3	47.6	50.5	53.0	55.3	57.4	59.3	60.9	62.5	63.8	65.1	66.2	67.3							
	K.....	1.79	2.16	2.57	3.02	3.51	4.04	4.61	5.23	5.88	6.58	7.33	8.12	8.95	9.82												
0.008	SC.....	99.9	93.9	88.9	84.4	80.4	76.7	74.5	72.7	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3								
	F 4.684	2.731	1.977	1.458	1.356	1.206	1.102	1.029	0.974	0.932	0.900	0.874	0.854	0.837	0.823	0.812	0.802	0.794	0.786	0.780							
	A 8.8	15.3	21.4	27.0	32.1	36.7	40.8	44.4	47.7	50.6	53.1	55.4	57.5	59.3	61.0	62.5	63.9	65.1	66.3	67.3							
	K.....	2.26	2.66	3.09	3.55	4.06	4.61	5.23	5.88	6.58	7.33	8.12	8.95	9.82													
0.010	SC.....	99.9	93.9	88.9	84.4	80.4	76.7	74.5	72.7	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3								
	F 5.530	3.308	2.420	1.956	1.677	1.495	1.370	1.279	1.213	1.162	1.122	1.091	1.065	1.045	1.028	1.013	1.001	0.991	0.982	0.975							
	A 9.4	15.8	21.8	27.4	32.5	37.0	41.1	44.7	47.9	50.8	53.3	55.6	57.6	59.5	61.1	62.6	64.0	65.2	66.4	67.4							
	K.....	5.75	6.34	6.95	7.59	8.28	8.99	9.74	10.53	11.37	12.25	13.18	14.15	15.16	16.21	17.30	18.43	19.60	20.81	22.06							

CAMBIERS PICKS ENDS  
24 15 4

VIAHETER OVER DIELECTRIC

STR.DIA.

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	97.4	71.7	57.0	45.0	44.3	41.4	39.4	38.0	37.0	36.2	35.7	35.2	34.0	34.6	34.4	34.2	34.0	33.9	33.8	33.7
F 0.438	0.468	0.345	0.286	0.254	0.234	0.221	0.212	0.206	0.202	0.198	0.195	0.191	0.190	0.189	0.189	0.188	0.187	0.186	0.186	0.186
A 12.4	22.6	31.5	39.0	45.2	50.2	54.4	57.9	60.8	63.3	65.4	67.2	68.8	70.2	71.4	72.5	73.4	74.3	75.1	75.8	75.8
K 1.25	2.50	3.99	5.78	7.92	10.44	13.35	16.67	20.40	24.56	29.13	34.13	39.55	45.40	51.67	58.37	65.50	73.05	81.03	89.44	89.44
0.004	85.2	70.3	61.5	56.1	52.6	50.2	48.6	47.4	46.5	45.8	45.3	44.8	44.5	44.2	44.0	43.8	43.6	43.5	43.4	43.4
F 1.081	0.615	0.455	0.379	0.337	0.311	0.295	0.283	0.275	0.268	0.264	0.260	0.257	0.255	0.253	0.252	0.250	0.249	0.248	0.248	0.248
A 12.8	23.0	31.8	39.2	45.4	50.4	54.6	58.0	60.9	63.4	65.5	67.3	68.8	70.2	71.4	72.5	73.5	74.3	75.1	75.8	75.8
K 1.92	3.04	4.39	6.01	7.91	10.11	12.61	15.42	18.55	21.90	25.75	29.83	34.23	38.95	43.98	49.34	55.02	61.02	67.34	74.02	81.02
0.005	94.5	81.0	72.1	66.4	62.4	60.0	58.2	56.8	55.8	55.1	54.4	54.0	53.6	53.3	53.0	52.8	52.6	52.4	52.3	52.3
F 1.308	0.757	0.564	0.472	0.420	0.388	0.367	0.353	0.343	0.335	0.330	0.325	0.322	0.319	0.316	0.314	0.313	0.312	0.310	0.309	0.309
A 13.3	23.4	32.1	39.5	45.6	50.6	54.7	58.2	61.0	63.5	65.5	67.3	68.8	70.2	71.4	72.5	73.5	74.3	75.1	75.8	75.8
K 1.57	2.47	3.56	4.86	6.39	8.16	10.17	12.43	14.94	17.71	20.73	24.00	27.53	31.31	35.35	39.65	44.20	49.01	54.04	59.24	64.54
0.006	98.9	89.2	80.9	75.2	71.3	68.7	66.7	65.3	64.2	63.4	62.8	62.3	61.8	61.5	61.2	61.0	60.8	60.6	60.5	60.5
F 1.527	0.892	0.671	0.563	0.502	0.465	0.440	0.423	0.411	0.402	0.395	0.390	0.384	0.382	0.380	0.377	0.375	0.374	0.372	0.371	0.371
A 13.7	23.7	32.5	39.8	45.8	50.8	54.9	58.3	61.1	63.6	65.6	67.4	69.0	70.3	71.5	72.6	73.5	74.4	75.2	75.9	75.9
K 1.33	2.09	3.01	4.10	5.38	6.86	8.55	10.44	12.54	14.85	17.38	20.11	23.06	26.23	29.60	33.19	36.99	41.01	45.24	49.61	54.04
0.007	95.0	87.9	82.7	78.9	75.2	71.3	68.7	66.7	65.3	64.2	63.4	62.8	62.3	61.8	61.5	61.2	61.0	60.8	60.6	60.5
F 1.723	1.028	0.776	0.653	0.584	0.541	0.513	0.493	0.479	0.469	0.461	0.455	0.450	0.446	0.443	0.440	0.438	0.436	0.434	0.433	0.433
A 14.1	24.1	32.8	40.0	46.0	51.0	55.0	58.4	61.2	63.6	65.7	67.5	69.0	70.4	71.6	72.6	73.6	74.4	75.2	75.9	75.9
K 1.82	2.61	3.56	4.66	5.94	7.39	9.02	10.83	12.81	14.99	17.34	19.87	22.59	25.49	28.57	31.84	35.29	38.92	42.64	46.44	50.24
0.008	98.5	93.3	88.7	85.3	82.8	80.9	79.5	78.4	77.6	76.9	76.4	75.9	75.6	75.3	75.0	74.8	74.6	74.5	74.4	74.4
F 1.913	1.156	0.879	0.742	0.660	0.616	0.595	0.563	0.547	0.535	0.526	0.519	0.514	0.509	0.506	0.503	0.500	0.498	0.496	0.495	0.495
A 14.5	24.5	33.1	40.3	46.2	51.1	55.2	58.5	61.3	63.7	65.8	67.5	69.1	70.4	71.6	72.7	73.6	74.5	75.2	75.9	75.9
K 1.62	2.32	3.15	4.12	5.24	6.52	7.95	9.54	11.29	13.10	15.06	17.14	19.48	22.04	24.81	27.78	30.94	34.29	37.84	41.54	45.24
0.010	99.3	96.9	94.6	92.6	91.1	89.9	89.0	88.2	87.7	87.2	86.8	86.5	86.2	86.0	85.8	85.6	85.4	85.2	85.0	84.8
F 2.264	1.408	1.081	0.825	0.767	0.728	0.702	0.682	0.668	0.657	0.649	0.642	0.636	0.632	0.628	0.625	0.623	0.620	0.618	0.616	0.614
A 15.4	25.2	33.7	40.8	46.7	51.5	55.5	58.8	61.6	63.9	65.9	67.7	69.2	70.5	71.7	72.7	73.7	74.5	75.3	76.0	76.0
K 1.90	2.58	3.36	4.27	5.30	6.46	7.74	9.15	10.68	12.34	14.13	16.05	18.10	20.27	22.57	25.00	27.56	30.24	33.04	35.84	38.64



		CARRIERS				PICKS				ENDS											
		24				15				7											
STR.DIA.																					
DIAMETER OVER DIELECTRIC																					
		0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC	96.7	84.2	75.1	69.1	65.2	62.5	60.5	59.1	58.1	57.3	56.7	56.2	55.4	55.2	54.9	54.7	54.6	54.4		
	F	1.467	0.820	0.603	0.501	0.444	0.410	0.387	0.372	0.361	0.353	0.346	0.342	0.338	0.335	0.332	0.330	0.327	0.326	0.325	
	A	12.4	22.6	31.5	39.0	45.2	50.2	54.4	57.9	60.8	63.3	65.4	67.2	68.8	70.2	71.4	72.5	73.4	75.1	75.8	
	K	1.43	2.28	3.30	4.53	5.96	7.63	9.53	11.66	14.03	16.65	19.50	22.60	25.94	29.52	33.35	37.43	41.74	46.30	51.11	
0.004	XC	95.9	84.7	73.2	69.3	76.5	74.5	73.0	71.9	71.0	70.3	69.8	69.3	69.0	68.7	68.4	68.2	68.0	67.9		
	F	1.891	1.076	0.797	0.664	0.590	0.545	0.515	0.495	0.481	0.470	0.462	0.455	0.450	0.446	0.443	0.440	0.438	0.435	0.433	
	A	12.8	23.0	31.8	39.2	45.4	50.4	54.6	58.0	60.9	63.4	65.5	67.3	68.8	70.2	71.4	72.5	73.5	75.1	75.8	
	K	1.74	2.51	3.43	4.59	5.77	7.20	8.81	10.60	12.57	14.72	17.05	19.56	22.26	25.13	28.20	31.44	34.87	38.48		
0.005	XC	100.0	96.9	93.0	89.7	87.3	85.4	84.0	82.9	82.1	81.4	80.9	80.4	80.1	79.8	79.5	79.3	79.1	79.0		
	F	2.280	1.324	0.825	0.425	0.735	0.679	0.643	0.618	0.600	0.587	0.577	0.569	0.563	0.558	0.554	0.550	0.548	0.543	0.541	
	A	13.3	24.4	32.1	39.5	45.6	50.6	54.7	58.2	61.0	63.5	65.5	67.3	68.9	70.3	71.5	72.5	73.5	74.4	75.8	
	K	1.91	2.04	2.78	3.65	4.66	5.81	7.10	8.54	10.12	11.84	13.71	15.73	17.89	20.20	22.66	25.26	28.01	30.90		
0.006	XC	100.0	98.5	96.5	94.7	93.3	92.1	91.2	90.5	89.9	89.4	89.0	88.7	88.5	88.2	88.0	87.9	87.7			
	F	2.663	1.505	1.174	0.813	0.770	0.741	0.719	0.702	0.692	0.682	0.675	0.669	0.664	0.660	0.657	0.654	0.650			
	A	13.7	24.7	32.5	39.8	45.8	50.8	54.9	58.3	61.1	63.6	65.6	67.4	69.0	70.3	71.5	72.6	73.5	74.4	75.2	
	K	1.72	2.34	3.08	3.92	4.88	5.97	7.17	8.49	9.93	11.40	13.18	14.99	16.91	18.97	21.14	23.43	25.85			
0.007	XC	99.7	98.9	98.1	97.4	96.8	96.3	95.8	95.5	95.2	94.9	94.7	94.5	94.3	94.1	93.9					
	F	3.015	1.799	1.142	0.821	0.946	0.897	0.863	0.838	0.820	0.806	0.796	0.787	0.780	0.775	0.770	0.766	0.763	0.760	0.756	
	A	14.1	24.1	32.8	40.0	46.0	51.0	55.0	58.4	61.2	63.6	65.7	67.5	69.0	70.4	71.6	72.6	73.5	74.4	75.2	
	K	2.66	3.39	4.22	5.15	6.19	7.32	8.56	9.91	11.36	12.91	14.57	16.33	18.20	20.17	22.24					
0.008	XC	100.0	99.8	99.6	99.4	99.2	99.0	98.8	98.7	98.6	98.5	98.4	98.3	98.2	98.1	98.0	97.9	97.8			
	F	3.348	2.026	1.538	1.299	1.163	1.079	1.023	0.985	0.957	0.937	0.921	0.909	0.899	0.892	0.885	0.878	0.872	0.869	0.866	
	A	14.5	24.5	33.1	40.3	46.2	51.1	55.2	58.5	61.3	63.7	65.8	67.5	69.1	70.4	71.6	72.7	73.6	74.5	75.2	
	K	3.73	4.54	5.45	6.45	7.54	8.72	9.99	11.35	12.81	14.35	15.99	17.72	19.54							
0.010	XC	100.0	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5	98.4			
	F	3.961	2.463	1.891	1.406	1.443	1.342	1.275	1.228	1.194	1.169	1.150	1.135	1.123	1.114	1.106	1.099	1.094	1.089	1.082	
	A	15.4	25.2	33.7	40.8	46.7	51.5	55.5	58.8	61.6	63.9	65.9	67.7	69.2	70.5	71.7	72.7	73.7	74.5	75.3	
	K	4.81	5.81	6.81	7.81	8.81	9.81	10.81	11.81	12.81	13.81	14.81	15.81	16.81	17.81	18.81	19.81	20.81	21.81	22.81	



STR. DIA.	DIAMETER OVER DIELECTRIC																			
	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC*****	87.7	28.9	55.9	46.9	40.3	35.4	31.6	28.6	26.1	24.1	22.4	20.9	19.7	18.6	17.7	16.4	16.1	15.4	14.9
	F 1.228	0.650	0.442	0.336	0.271	0.228	0.196	0.173	0.155	0.141	0.129	0.119	0.111	0.104	0.098	0.093	0.088	0.084	0.080	0.077
	A 1.7	3.2	4.7	6.2	7.6	9.1	10.6	12.0	13.4	14.8	16.2	17.6	19.0	20.3	21.6	22.9	24.1	25.4	26.8	27.8
	K*****	1.54	2.28	3.01	3.76	4.51	5.27	6.04	6.82	7.61	8.42	9.25	10.09	10.95	11.83	12.72	13.64	14.58	15.55	16.54
0.004	XC*****	97.8	82.5	69.0	58.9	51.2	45.3	40.7	36.9	33.9	31.3	29.1	27.3	25.7	24.3	23.1	22.1	21.1	20.3	19.5
	F 1.561	0.650	0.582	0.442	0.359	0.301	0.261	0.230	0.206	0.187	0.171	0.158	0.147	0.138	0.130	0.123	0.117	0.112	0.107	0.103
	A 1.7	3.2	4.7	6.2	7.7	9.2	10.6	12.1	13.5	14.9	16.3	17.7	19.0	20.3	21.6	22.9	24.2	25.4	26.6	27.8
	K*****	1.18	1.73	2.28	2.84	3.40	3.97	4.55	5.14	5.73	6.34	6.96	7.59	8.24	8.90	9.57	10.26	10.97	11.69	12.43
0.005	XC*****	92.1	79.7	69.7	60.9	54.3	49.0	44.7	41.1	38.1	35.8	33.4	31.5	29.8	28.4	27.1	26.0	24.9	24.0	23.0
	F 1.911	1.043	0.719	0.549	0.445	0.374	0.324	0.286	0.256	0.233	0.213	0.197	0.184	0.172	0.162	0.154	0.146	0.139	0.134	0.128
	A 1.8	3.3	4.8	6.3	7.8	9.2	10.7	12.1	13.5	15.0	16.3	17.7	19.1	20.4	21.7	23.0	24.2	25.5	26.7	27.9
	K*****	1.40	1.84	2.29	2.74	3.20	3.66	4.13	4.61	5.09	5.59	6.09	6.61	7.14	7.68	8.23	8.80	9.38	9.97	10.57
0.006	XC*****	97.8	87.9	77.9	69.4	62.4	56.6	51.9	47.9	44.5	41.6	39.1	37.0	35.1	33.4	31.9	30.6	29.4	28.4	27.4
	F 2.219	1.230	0.852	0.653	0.530	0.447	0.387	0.341	0.306	0.278	0.255	0.238	0.220	0.208	0.194	0.184	0.175	0.167	0.160	0.154
	A 1.9	3.4	4.8	6.3	7.8	9.3	10.7	12.2	13.6	15.0	16.4	17.8	19.1	20.4	21.8	23.0	24.3	25.5	26.7	27.9
	K*****	1.16	1.55	1.92	2.30	2.68	3.07	3.46	3.85	4.26	4.67	5.10	5.53	5.97	6.42	6.88	7.35	7.83	8.33	8.83
0.007	XC*****	100.0	94.0	85.1	76.7	69.6	63.6	58.5	54.2	50.5	47.4	44.6	42.2	40.1	38.3	36.6	35.1	33.8	32.6	31.6
	F 2.508	1.410	0.982	0.754	0.613	0.516	0.449	0.397	0.356	0.323	0.297	0.274	0.256	0.240	0.226	0.213	0.204	0.195	0.186	0.179
	A 1.9	3.4	4.9	6.4	7.9	9.3	10.8	12.2	13.7	15.1	16.5	17.8	19.2	20.5	21.8	23.1	24.3	25.6	26.8	28.0
	K*****	1.03	1.34	1.66	1.98	2.31	2.64	2.98	3.32	3.67	4.02	4.38	4.75	5.13	5.52	5.91	6.32	6.73	7.16	7.61
0.008	XC*****	97.9	90.8	83.0	76.0	69.9	64.4	60.1	56.2	52.8	49.8	47.2	44.9	42.9	41.1	39.5	38.0	36.7	35.7	34.7
	F 2.780	1.583	1.109	0.854	0.696	0.580	0.510	0.451	0.405	0.368	0.338	0.313	0.292	0.273	0.258	0.244	0.232	0.222	0.213	0.204
	A 2.0	3.5	5.0	6.5	7.9	9.4	10.8	12.3	13.7	15.1	16.5	17.9	19.2	20.6	21.9	23.1	24.4	25.6	26.8	28.0
	K*****	1.19	1.46	1.75	2.03	2.32	2.62	2.92	3.22	3.53	3.85	4.17	4.50	4.84	5.19	5.54	5.90	6.26	6.63	7.00
0.010	XC*****	98.0	92.5	86.4	80.5	75.2	70.5	66.3	62.6	59.4	56.5	53.9	51.6	49.5	47.7	46.0	44.5	43.0	41.5	40.0
	F 3.276	1.914	1.353	1.049	0.857	0.726	0.631	0.559	0.502	0.457	0.420	0.389	0.363	0.340	0.321	0.304	0.289	0.277	0.265	0.255
	A 2.1	3.6	5.1	6.6	8.0	9.5	11.0	12.4	13.8	15.2	16.6	18.0	19.3	20.7	22.0	23.2	24.5	25.7	26.9	28.1
	K*****	1.19	1.42	1.64	1.88	2.11	2.35	2.60	2.84	3.10	3.36	3.62	3.89	4.17	4.46	4.75	5.05	5.35	5.65	5.95

DIAMETER OVER DIELECTRIC

STR.DIA.

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	IC*****	94.9	83.0	72.4	63.8	56.9	51.4	46.9	43.1	40.0	37.3	35.0	33.0	31.3	29.8	28.4	27.2	26.2	25.2	
	F	150	1.137	0.774	0.587	0.398	0.344	0.303	0.271	0.246	0.225	0.208	0.194	0.182	0.171	0.162	0.154	0.147	0.141	0.135
	A	1.7	3.2	4.7	6.2	7.6	9.1	10.6	12.0	13.4	14.8	16.2	17.6	19.0	20.3	21.6	22.9	24.1	25.4	26.8
	K	*****	1.30	1.72	2.15	2.58	3.01	3.45	3.90	4.35	4.81	5.28	5.76	6.24	6.72	7.27	7.80	8.33	8.89	9.45
0.004	IC*****	95.0	86.1	77.7	70.4	64.2	59.1	54.7	50.9	47.7	44.0	42.5	40.4	38.5	36.8	35.3	34.0	32.8		
	F	2.767	1.488	1.019	0.776	0.528	0.456	0.402	0.360	0.327	0.300	0.277	0.258	0.242	0.228	0.216	0.205	0.196	0.187	0.180
	A	1.7	3.2	4.7	6.2	7.7	9.2	10.6	12.1	13.5	14.9	16.3	17.7	19.0	20.3	21.6	22.9	24.2	25.4	26.8
	K	*****	1.30	1.62	1.94	2.27	2.60	2.94	3.28	3.62	3.96	4.34	4.71	5.08	5.47	5.86	6.27	6.68	7.10	
0.005	IC*****	95.1	86.1	77.7	70.4	64.2	59.1	54.7	50.9	47.7	44.0	42.5	40.4	38.5	36.8	35.3	34.0	32.8		
	F	3.384	1.826	1.258	0.961	0.778	0.655	0.567	0.500	0.448	0.407	0.373	0.345	0.321	0.301	0.284	0.269	0.256	0.244	0.234
	A	1.8	3.3	4.8	6.3	7.8	9.2	10.7	12.1	13.5	14.9	16.3	17.7	19.1	20.4	21.7	23.0	24.2	25.5	26.7
	K	*****	1.05	1.31	1.57	1.83	2.09	2.36	2.63	2.91	3.19	3.48	3.78	4.08	4.39	4.70	5.03	5.36	5.70	
0.006	IC*****	95.5	86.1	77.7	70.4	64.2	59.1	54.7	50.9	47.7	44.0	42.5	40.4	38.5	36.8	35.3	34.0	32.8		
	F	3.883	2.152	1.491	1.102	0.927	0.782	0.677	0.598	0.536	0.487	0.446	0.413	0.385	0.361	0.340	0.322	0.306	0.292	0.280
	A	1.9	3.4	4.9	6.4	7.9	9.3	10.7	12.2	13.6	15.0	16.4	17.8	19.1	20.4	21.8	23.1	24.3	25.5	26.7
	K	*****	1.10	1.31	1.53	1.75	1.98	2.20	2.43	2.67	2.91	3.16	3.41	3.67	3.93	4.20	4.48	4.76		
0.007	IC*****	99.1	95.4	90.6	85.8	81.1	76.9	73.0	69.5	66.3	63.5	60.9	58.6	56.5	54.6	52.9				
	F	4.389	2.467	1.718	1.320	1.074	0.906	0.785	0.694	0.623	0.566	0.510	0.468	0.420	0.396	0.375	0.357	0.341	0.326	0.313
	A	1.9	3.4	4.9	6.4	7.9	9.3	10.8	12.2	13.7	15.1	16.5	17.8	19.2	20.5	21.8	23.1	24.3	25.6	26.8
	K	*****	1.13	1.32	1.51	1.70	1.90	2.09	2.30	2.50	2.72	2.93	3.15	3.38	3.61	3.85	4.09			
0.008	IC*****	99.8	95.6	91.5	87.3	83.3	79.5	76.0	72.8	69.9	67.2	64.8	62.6	60.6	58.7					
	F	4.868	2.771	1.940	1.495	1.218	1.029	0.893	0.789	0.709	0.644	0.591	0.540	0.491	0.451	0.428	0.407	0.388	0.372	0.358
	A	2.0	3.5	5.0	6.5	7.9	9.4	10.8	12.3	13.7	15.1	16.5	17.9	19.2	20.6	21.9	23.1	24.4	25.6	26.8
	K	*****	1.16	1.33	1.49	1.67	1.84	2.02	2.20	2.38	2.57	2.77	2.96	3.17	3.37	3.59				
0.010	IC*****	100.0	94.5	94.0	92.9	89.4	86.6	83.6	80.8	78.1	75.7	73.4	71.2	69.3						
	F	5.733	3.349	2.369	1.835	1.500	1.271	1.104	0.978	0.879	0.799	0.734	0.680	0.638	0.595	0.562	0.532	0.507	0.484	0.464
	A	2.1	3.6	5.1	6.6	8.0	9.5	11.0	12.4	13.8	15.2	16.6	18.0	19.3	20.7	22.0	23.2	24.5	25.7	26.9
	K	*****	1.07	1.21	1.34	1.48	1.63	1.77	1.92	2.07	2.23	2.38	2.55	2.71	2.86					

CARRIERS PICKS ENDS  
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STR.DIA.

DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC	97.4	89.6	81.4	74.1	67.8	62.5	57.9	54.0	50.7	47.7	45.2	42.9	40.9	39.2	37.6	36.2	34.9		
	F	3.071	1.624	1.106	0.839	0.677	0.569	0.491	0.433	0.388	0.351	0.322	0.298	0.277	0.260	0.245	0.231	0.220	0.210	0.193
	A	1.7	3.2	4.7	6.2	7.6	9.1	10.6	12.0	13.4	14.8	16.2	17.6	19.0	20.3	21.6	22.9	24.1	25.4	26.8
	K	1.21	1.50	1.80	2.11	2.41	2.73	3.05	3.37	3.70	4.04	4.38	4.73	5.09	5.46	5.83	6.22	6.61		
0.004	XC	98.9	93.9	87.8	81.9	76.4	71.6	67.3	63.5	60.1	57.1	54.5	52.1	50.0	48.1	46.4	44.8			
	F	3.953	2.125	1.455	1.008	0.696	0.754	0.651	0.574	0.515	0.467	0.428	0.396	0.368	0.345	0.325	0.308	0.293	0.279	0.257
	A	1.7	3.2	4.7	6.2	7.7	9.2	10.6	12.1	13.5	14.9	16.3	17.7	19.0	20.3	21.6	22.9	24.2	25.4	26.8
	K	1.14	1.36	1.59	1.82	2.06	2.29	2.54	2.78	3.04	3.29	3.56	3.83	4.10	4.39	4.68	4.97			
0.005	XC	99.6	96.4	91.9	87.1	82.5	78.2	74.3	70.8	67.6	64.7	62.1	59.7	57.6	55.6	53.9				
	F	4.771	2.609	1.797	1.372	1.112	0.936	0.810	0.715	0.641	0.581	0.533	0.493	0.459	0.430	0.406	0.384	0.365	0.349	0.321
	A	1.8	3.3	4.8	6.3	7.8	9.2	10.7	12.1	13.5	15.0	16.3	17.7	19.1	20.4	21.7	23.0	24.2	25.5	26.7
	K	1.10	1.28	1.46	1.65	1.84	2.04	2.24	2.44	2.64	2.86	3.07	3.29	3.52	3.75	3.99				
0.006	XC	99.9	97.9	94.5	90.7	86.9	83.2	79.7	76.5	73.6	70.8	68.4	66.1	64.0	62.1					
	F	5.548	3.075	2.130	1.632	1.324	1.116	0.967	0.854	0.766	0.695	0.638	0.590	0.550	0.515	0.486	0.450	0.438	0.418	0.384
	A	1.9	3.4	4.8	6.3	7.8	9.3	10.7	12.2	13.6	15.0	16.4	17.8	19.1	20.4	21.8	23.0	24.3	25.5	26.7
	K	1.07	1.23	1.38	1.54	1.70	1.87	2.04	2.21	2.39	2.57	2.75	2.94	3.13	3.33					
0.007	XC	100.0	98.8	96.3	93.3	90.1	87.0	84.0	81.1	78.4	75.9	73.6	71.5	69.5						
	F	6.270	3.524	2.455	1.886	1.534	1.294	1.122	0.991	0.890	0.808	0.741	0.686	0.639	0.600	0.565	0.536	0.509	0.486	0.466
	A	1.9	3.4	4.9	6.4	7.9	9.3	10.8	12.2	13.7	15.1	16.5	17.8	19.2	20.5	21.8	23.1	24.3	25.6	26.8
	K	1.06	1.19	1.33	1.47	1.61	1.75	1.90	2.05	2.21	2.36	2.53	2.69	2.86						
0.008	XC	99.4	97.6	95.2	92.6	90.0	87.4	84.9	82.5	80.2	78.1	76.1								
	F	6.949	3.959	2.772	2.136	1.740	1.470	1.275	1.128	1.012	0.920	0.845	0.782	0.729	0.684	0.645	0.611	0.581	0.552	0.511
	A	2.0	3.5	5.0	6.5	7.9	9.4	10.8	12.3	13.7	15.1	16.5	17.9	19.2	20.6	21.9	23.1	24.4	25.6	26.8
	K	1.07	1.23	1.38	1.54	1.70	1.87	2.04	2.21	2.39	2.57	2.75	2.94	3.13	3.33					
0.010	XC	99.9	99.1	97.8	96.1	94.3	92.4	90.5	88.6	86.8										
	F	8.191	4.784	3.384	2.622	2.143	1.815	1.577	1.397	1.255	1.142	1.049	0.972	0.906	0.850	0.802	0.760	0.724	0.691	0.662
	A	2.1	3.6	5.1	6.6	8.0	9.5	11.0	12.4	13.8	15.2	16.6	18.0	19.3	20.7	22.0	23.2	24.5	25.7	26.9
	K	1.14	1.24	1.34	1.45	1.56	1.67	1.78	1.90	2.02										

DIAMETER OVER DIELECTRIC

STR.DIA.

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	80.3	70.2	57.9	49.5	43.6	39.4	36.1	33.7	31.7	30.1	28.9	27.8	27.0	26.2	25.6	25.1	24.7	24.3	23.9	
F	1.233	0.658	0.454	0.351	0.289	0.221	0.201	0.185	0.174	0.164	0.157	0.150	0.145	0.141	0.138	0.135	0.132	0.130	0.128	
A	5.0	4.5	13.8	17.9	21.9	25.7	29.2	32.5	35.6	38.5	41.1	43.6	45.9	48.0	49.9	51.7	53.4	54.9	56.3	57.7
K	1.56	2.34	3.15	4.01	4.94	5.93	7.00	8.16	9.40	10.74	12.17	13.70	15.33	17.07	18.91	20.86	22.92	25.09	27.36	
0.004	98.1	83.8	71.2	62.0	55.2	50.1	46.3	43.2	40.8	38.9	37.4	36.1	35.0	34.1	33.3	32.6	32.1	31.6	31.2	
F	1.587	0.861	0.598	0.464	0.383	0.331	0.294	0.267	0.247	0.231	0.218	0.208	0.199	0.188	0.181	0.179	0.176	0.173	0.170	
A	5.2	4.6	13.9	18.1	22.1	25.8	29.4	32.7	35.7	38.6	41.2	43.7	45.9	48.0	50.0	51.8	53.4	55.0	56.4	57.7
K	1.19	1.78	2.39	3.04	3.73	4.48	5.29	6.15	7.09	8.00	9.17	10.32	11.55	12.86	14.24	15.71	17.25	18.88	20.59	
0.005	93.2	81.9	72.6	65.3	59.8	55.4	52.0	49.3	47.1	45.3	43.8	42.5	41.4	40.5	39.8	39.1	38.5	38.0		
F	1.918	1.057	0.738	0.575	0.476	0.411	0.366	0.332	0.307	0.288	0.273	0.260	0.250	0.242	0.235	0.229	0.224	0.220	0.216	0.213
A	5.2	4.8	14.1	18.3	22.2	26.0	29.5	32.8	35.9	38.7	41.3	43.8	46.0	48.1	50.0	51.8	53.5	55.0	56.4	57.8
K	1.44	1.93	2.45	3.01	3.61	4.26	4.95	5.70	6.51	7.37	8.30	9.28	10.33	11.44	12.61	13.85	15.16	16.53		
0.006	98.5	90.0	81.3	74.1	68.3	63.7	60.0	57.1	54.6	52.6	51.0	49.6	48.4	47.4	46.5	45.7	45.1	44.5		
F	2.228	1.207	0.876	0.684	0.568	0.491	0.437	0.398	0.368	0.345	0.326	0.312	0.300	0.290	0.281	0.274	0.269	0.263	0.259	0.255
A	5.6	10.0	14.3	18.4	22.4	26.1	29.6	32.9	36.0	38.8	41.4	43.9	46.1	48.2	50.1	51.9	53.6	55.1	56.5	57.8
K	1.22	1.62	2.06	2.53	3.03	3.57	4.15	4.78	5.45	6.17	6.95	7.77	8.64	9.57	10.55	11.59	12.68	13.82		
0.007	95.6	88.3	81.5	75.8	71.1	67.3	64.1	61.6	59.4	57.6	56.1	54.8	53.7	52.8	52.0	51.3	50.7			
F	2.519	1.430	1.010	0.791	0.658	0.570	0.508	0.462	0.428	0.401	0.380	0.363	0.349	0.338	0.328	0.320	0.313	0.307	0.302	0.298
A	5.7	10.2	14.4	18.6	22.5	26.3	29.8	33.0	36.1	38.9	41.5	44.0	46.2	48.3	50.2	52.0	53.6	55.1	56.6	57.9
K	1.41	1.78	2.18	2.61	3.08	3.58	4.12	4.70	5.32	5.98	6.69	7.44	8.24	9.08	9.97	10.90	11.89			
0.008	98.9	93.6	87.6	82.2	77.6	73.7	70.6	67.9	65.7	63.8	62.2	60.9	59.7	58.7	57.8	57.1	56.4			
F	2.793	1.607	1.141	0.896	0.747	0.648	0.578	0.526	0.488	0.457	0.433	0.414	0.398	0.387	0.374	0.365	0.357	0.351	0.345	0.340
A	5.9	10.3	14.6	18.7	22.7	26.4	29.9	33.2	36.2	39.0	41.6	44.1	46.3	48.4	50.3	52.0	53.7	55.2	56.6	57.9
K	1.24	1.57	1.92	2.30	2.71	3.15	3.62	4.13	4.68	5.26	5.84	6.54	7.24	7.97	8.75	9.57	10.44			
0.010	99.4	96.1	92.0	88.0	84.5	81.4	78.8	76.4	74.7	73.0	71.6	70.4	69.3	68.4	67.6	66.9				
F	3.294	1.943	1.395	1.102	0.922	0.802	0.716	0.654	0.606	0.569	0.540	0.514	0.497	0.481	0.467	0.456	0.446	0.438	0.431	0.424
A	6.3	10.7	15.0	19.1	23.0	26.7	30.2	33.4	36.4	39.2	41.8	44.2	46.5	48.5	50.4	52.2	53.8	55.3	56.7	58.0
K	1.28	1.56	1.87	2.20	2.55	2.93	3.34	3.78	4.24	4.74	5.27	5.83	6.43	7.05	7.71	8.41				

	CARRIERS			PICKS			ENDS													
	36			9			7													
DIAMETER OVER DIELECTRIC																				
STR. DIA.	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	XC	95.8	85.1	75.7	68.2	62.5	57.9	54.4	51.5	49.2	47.3	45.7	44.4	43.3	42.4	41.6	40.9	40.3	39.7	
	F	2.157	1.151	0.794	0.436	0.287	0.191	0.125	0.085	0.057	0.039	0.027	0.019	0.014	0.010	0.008	0.006	0.005	0.004	0.003
	A	5.0	9.5	13.8	17.9	21.9	25.7	29.2	32.5	35.6	38.5	41.1	43.6	45.9	48.0	49.9	51.7	53.4	54.9	56.3
	K	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0
0.004	XC	96.4	89.2	82.2	76.4	71.6	67.7	64.5	61.8	59.7	57.8	56.3	55.0	53.9	52.9	52.1	51.4	50.7		
	F	2.777	1.507	0.911	0.579	0.354	0.217	0.132	0.082	0.050	0.032	0.020	0.014	0.010	0.007	0.005	0.004	0.003	0.002	0.001
	A	5.2	9.6	13.9	18.1	22.1	25.8	29.4	32.7	35.7	38.6	41.2	43.7	45.9	48.0	50.0	51.8	53.4	55.0	56.4
	K	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0
0.005	XC	97.2	92.1	87.0	82.5	78.6	75.4	72.6	70.3	68.4	66.7	65.3	64.1	63.0	62.1	61.3	60.6			
	F	3.357	1.850	1.292	0.833	0.520	0.318	0.196	0.119	0.072	0.043	0.026	0.016	0.010	0.007	0.005	0.004	0.003	0.002	0.001
	A	5.4	9.8	14.1	18.3	22.2	26.0	29.5	32.8	35.9	38.7	41.3	43.8	46.0	48.1	50.0	51.8	53.5	55.0	56.4
	K	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0
0.006	XC	98.0	94.5	90.7	87.3	84.3	81.6	79.3	77.4	75.7	74.3	73.0	71.9	70.9	70.1	69.4				
	F	3.900	2.182	1.533	1.096	0.765	0.496	0.300	0.180	0.109	0.065	0.039	0.023	0.014	0.009	0.006	0.004	0.003	0.002	0.001
	A	5.6	10.0	14.3	18.4	22.4	26.1	29.6	32.9	36.0	38.8	41.4	43.9	46.1	48.2	50.1	51.9	53.6	55.1	56.5
	K	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0
0.007	XC	98.8	96.3	93.7	91.1	88.8	86.7	84.9	83.3	81.9	80.6	79.6	78.6	77.8	77.0					
	F	4.409	2.502	1.768	1.284	0.888	0.549	0.330	0.200	0.120	0.072	0.043	0.026	0.015	0.009	0.006	0.004	0.003	0.002	0.001
	A	5.7	10.2	14.4	18.6	22.5	26.3	29.8	33.0	36.1	38.9	41.5	44.0	46.2	48.3	50.2	52.0	53.6	55.1	56.5
	K	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0
0.008	XC	99.4	97.8	96.0	94.2	92.4	90.8	89.4	88.1	86.9	85.8	84.8	83.9	83.0	82.1	81.2	80.3	79.4	78.5	77.6
	F	4.888	2.812	1.997	1.507	1.011	0.650	0.400	0.240	0.140	0.082	0.049	0.029	0.017	0.010	0.006	0.004	0.003	0.002	0.001
	A	5.9	10.3	14.6	18.7	22.7	26.4	29.9	33.2	36.2	39.0	41.6	44.1	46.3	48.4	50.3	52.0	53.7	55.2	56.6
	K	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0
0.010	XC	100.0	98.8	97.5	96.1	94.7	93.3	92.0	90.7	89.5	88.3	87.1	86.0	85.1	84.3	83.6				
	F	5.768	3.401	2.442	1.929	1.414	1.003	0.650	0.400	0.240	0.140	0.082	0.049	0.029	0.017	0.010	0.006	0.004	0.003	0.002
	A	6.3	10.7	15.0	19.1	23.0	26.7	30.2	33.4	36.4	39.2	41.8	44.2	46.5	48.5	50.4	52.2	53.8	55.3	56.7
	K	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0

CARRIERS PICKS ENDS  
36 9 10

DIAMETER OVER DIELECTRIC

SIR. DIA.

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	9A.5	92.4	85.8	80.0	75.2	71.2	68.0	65.2	63.0	61.1	59.5	58.1	57.0	56.0	55.1	54.4	53.7			
F	1.081	1.644	1.134	0.477	0.724	0.623	0.553	0.502	0.464	0.434	0.410	0.392	0.374	0.364	0.353	0.344	0.336	0.330	0.324	0.320
A	5.0	9.5	13.8	17.9	21.9	25.7	29.2	32.5	35.6	38.5	41.1	43.4	45.0	48.0	49.9	51.7	53.4	54.9	56.3	57.7
K	1.26	1.61	1.98	2.37	2.80	3.26	3.76	4.29	4.87	5.48	6.13	6.83	7.57	8.34	9.17	10.03	10.94			
0.004	99.8	97.0	92.9	84.9	85.3	82.1	79.4	77.1	75.1	73.4	71.9	70.7	69.6	68.6	67.8	67.0				
F	3.968	2.152	1.895	1.159	0.958	0.827	0.724	0.667	0.616	0.577	0.546	0.521	0.501	0.484	0.470	0.458	0.448	0.440	0.432	0.426
A	5.2	9.6	13.9	19.1	22.1	25.8	29.4	32.7	35.7	38.6	41.2	43.7	45.9	48.0	50.0	51.8	53.4	55.0	56.4	57.7
K	1.21	1.49	1.79	2.11	2.46	2.84	3.24	3.67	4.13	4.62	5.14	5.70	6.28	6.90	7.55	8.24				
0.005	99.3	97.1	94.6	92.1	80.8	87.8	84.0	82.9	81.7	80.6	79.7	78.8	78.1							
F	4.796	2.643	1.846	1.436	1.190	1.028	0.914	0.831	0.768	0.720	0.681	0.650	0.625	0.604	0.587	0.572	0.560	0.549	0.540	0.532
A	5.4	9.8	14.1	18.3	22.2	26.0	29.5	32.8	35.9	38.7	41.3	43.8	46.0	48.1	50.0	51.8	53.5	55.0	56.4	57.8
K	1.44	1.70	1.98	2.28	2.60	2.95	3.32	3.71	4.13	4.58	5.05	5.54	6.04	6.61						
0.006	100.0	99.4	98.1	96.6	95.1	93.7	92.4	91.2	90.2	89.2	88.3	87.6	86.9							
F	5.571	3.117	2.190	1.709	1.419	1.227	1.092	0.994	0.919	0.862	0.816	0.779	0.749	0.724	0.704	0.686	0.671	0.659	0.648	0.638
A	5.6	10.0	14.3	18.4	22.4	26.1	29.6	32.9	36.0	38.8	41.4	43.9	46.1	48.2	50.1	51.9	53.6	55.1	56.5	57.8
K	1.43	1.66	1.91	2.18	2.47	2.78	3.11	3.46	3.83	4.22	4.63	5.07	5.53							
0.007	99.8	99.1	98.4	97.6	96.8	96.0	95.3	94.6	94.0	93.4	92.8	92.2	91.6	91.0	90.4	89.8	89.2	88.6	88.0	87.4
F	6.298	3.574	2.525	1.977	1.645	1.424	1.269	1.156	1.070	1.003	0.950	0.908	0.873	0.844	0.820	0.800	0.783	0.768	0.755	0.744
A	5.7	10.2	14.6	18.6	22.5	26.3	29.8	33.0	36.1	38.9	41.5	44.0	46.2	48.3	50.2	52.0	53.6	55.1	56.6	57.9
K	1.84	2.13	2.47	2.84	3.24	3.67	4.13	4.62	5.14	5.70	6.28	6.90	7.55	8.24						
0.008	100.0	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5	98.4	98.3	98.2	98.1
F	6.982	4.016	2.854	2.241	1.868	1.610	1.425	1.316	1.210	1.143	1.084	1.035	0.996	0.963	0.936	0.913	0.894	0.877	0.862	0.850
A	5.9	10.3	14.6	18.7	22.7	26.6	29.9	33.2	36.2	39.0	41.6	44.1	46.3	48.4	50.3	52.0	53.7	55.2	56.6	57.9
K	2.10	2.35	2.61	2.89	3.19	3.50	3.83	4.19	4.58	4.99	5.42	5.87	6.34	6.83	7.34	7.87	8.42	8.99	9.57	10.17
0.010	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
F	8.234	4.859	3.488	2.755	2.305	2.004	1.791	1.634	1.515	1.423	1.349	1.290	1.241	1.201	1.168	1.139	1.115	1.094	1.077	1.061
A	6.3	10.7	15.0	19.1	23.0	26.7	30.2	33.4	36.4	39.2	41.8	44.2	46.5	48.6	50.4	52.2	53.8	55.3	56.7	58.0
K	2.10	2.35	2.61	2.89	3.19	3.50	3.83	4.19	4.58	4.99	5.42	5.87	6.34	6.83	7.34	7.87	8.42	8.99	9.57	10.17



CARRIERS PICKS ENDS  
36 15 4

## DIAMETER OVER DIELECTRIC

STR. DIA.

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	89.3	72.6	61.5	54.2	49.3	45.8	43.3	41.4	40.0	38.9	38.0	37.3	36.7	36.3	35.9	35.5	35.3	35.0	34.8	
F	1.281	0.673	0.476	0.379	0.323	0.288	0.264	0.247	0.235	0.226	0.218	0.213	0.208	0.205	0.202	0.199	0.197	0.195	0.194	0.193
A	8.3	15.5	22.2	28.3	33.8	38.7	43.0	46.7	50.0	53.0	55.5	57.8	59.8	61.6	63.2	64.6	66.0	67.1	68.2	69.2
K	1.60	2.45	3.40	4.48	5.70	7.08	8.62	10.33	12.22	14.28	16.53	18.96	21.58	24.38	27.37	30.55	33.92	37.48	41.22	
0.004	98.6	86.2	75.2	67.4	61.9	57.9	54.9	52.7	51.0	49.7	48.7	47.8	47.1	46.5	46.0	45.6	45.3	45.0	44.7	
F	1.590	0.882	0.628	0.502	0.429	0.382	0.351	0.329	0.313	0.300	0.291	0.283	0.278	0.273	0.269	0.265	0.263	0.260	0.258	0.257
A	8.4	15.8	22.5	28.6	34.0	38.9	43.1	46.9	50.2	53.1	55.6	57.9	59.9	61.7	63.3	64.7	66.0	67.2	68.3	69.2
K	1.22	1.87	2.58	3.40	4.32	5.35	6.51	7.80	9.22	10.78	12.47	14.30	16.27	18.37	20.62	23.01	25.54	28.22	31.03	
0.005	105.0	95.8	85.8	78.2	72.5	68.3	65.2	62.8	60.9	59.4	58.3	57.3	56.5	55.9	55.3	54.9	54.5	54.2	53.9	
F	1.933	1.084	0.776	0.623	0.533	0.476	0.437	0.410	0.390	0.375	0.363	0.352	0.341	0.336	0.332	0.328	0.325	0.323	0.321	
A	8.9	16.1	22.7	28.8	34.2	39.1	43.3	47.0	50.3	53.2	55.7	57.9	59.9	61.7	63.3	64.8	66.1	67.2	68.3	69.3
K	1.51	2.09	2.74	3.45	4.32	5.25	6.28	7.42	8.67	10.03	11.50	13.08	14.77	16.57	18.49	20.52	22.66	24.92		
0.006	111.4	101.3	91.3	83.8	78.1	73.3	69.1	65.9	63.7	62.1	60.9	59.9	59.0	58.3	57.7	57.3	56.9	56.5	56.2	
F	2.247	1.279	0.922	0.742	0.636	0.569	0.523	0.491	0.467	0.449	0.435	0.424	0.416	0.409	0.403	0.398	0.394	0.390	0.387	0.385
A	9.2	16.3	23.0	29.0	34.4	39.2	43.5	47.2	50.4	53.3	55.8	58.0	60.0	61.8	63.4	64.8	66.1	67.3	68.3	69.3
K	1.28	1.76	2.31	2.93	3.63	4.41	5.27	6.23	7.27	8.41	9.63	10.95	12.37	13.87	15.47	17.17	18.96	20.84		
0.007	118.0	107.8	97.8	90.3	84.7	80.5	76.3	73.1	70.2	67.3	65.7	64.5	63.4	62.6	61.9	61.3	60.8	60.3	60.0	
F	2.542	1.469	1.065	0.859	0.739	0.661	0.609	0.571	0.544	0.523	0.507	0.495	0.485	0.476	0.470	0.464	0.459	0.455	0.452	0.449
A	9.5	16.6	23.2	29.3	34.7	39.4	43.6	47.3	50.5	53.4	55.9	58.1	60.1	61.9	63.4	64.9	66.1	67.3	68.4	69.4
K	1.53	2.00	2.53	3.13	3.81	4.55	5.37	6.27	7.25	8.30	9.43	10.65	11.94	13.32	14.78	16.31	17.93			
0.008	124.6	114.4	104.4	96.9	91.4	87.2	83.0	79.8	76.5	73.3	71.1	69.9	68.7	67.9	67.2	66.5	65.9	65.4	64.9	
F	2.819	1.652	1.204	0.975	0.840	0.753	0.694	0.652	0.621	0.597	0.579	0.565	0.553	0.544	0.536	0.530	0.525	0.520	0.516	0.513
A	9.8	16.9	23.5	29.5	34.9	39.6	43.8	47.4	50.7	53.5	56.0	58.2	60.2	61.9	63.5	64.9	66.2	67.4	68.4	69.4
K	1.35	1.77	2.24	2.76	3.35	4.01	4.73	5.52	6.38	7.30	8.30	9.36	10.50	11.70	12.98	14.33	15.75			
0.010	131.2	121.0	111.0	103.5	97.0	92.8	88.6	85.4	82.3	79.1	76.9	75.7	74.5	73.4	72.6	71.9	71.3	70.8	70.3	
F	3.082	1.840	1.352	1.090	0.939	0.840	0.779	0.736	0.703	0.679	0.659	0.645	0.633	0.624	0.616	0.609	0.603	0.598	0.593	
A	10.1	17.4	24.0	29.9	35.3	40.0	44.1	47.7	50.9	53.7	56.2	58.4	60.3	62.1	63.6	65.0	66.3	67.5	68.5	69.5
K	1.82	2.25	2.72	3.25	3.83	4.47	5.16	5.90	6.70	7.56	8.47	9.44	10.47	11.55	12.69					

STR. DIA. CAMKIFRS PICKS ENDS  
36 15 7

UIAFTER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	3C.....	97.2	88.7	81.1	75.4	71.1	67.8	65.3	63.4	61.8	60.6	59.6	58.1	57.6	57.1	56.7	56.3	56.0		
	F 2.172	1.178	0.864	0.566	0.504	0.482	0.432	0.411	0.395	0.382	0.372	0.365	0.358	0.354	0.349	0.345	0.342	0.339	0.337	
	A 8.3	15.5	22.2	28.3	33.8	38.7	43.0	46.7	50.0	53.0	55.5	57.8	59.8	61.6	63.2	64.6	66.0	67.1	68.2	69.2
	K.....	1.40	1.95	2.56	3.26	4.04	4.92	5.90	6.98	8.16	9.45	10.84	12.33	13.93	15.64	17.46	19.38	21.41	23.55	
0.004	3C.....	98.5	93.8	89.1	85.1	82.0	79.5	77.5	75.9	74.6	73.5	72.7	71.9	71.3	70.8	70.4	70.0	69.7		
	F 2.798	1.544	1.099	0.878	0.750	0.669	0.614	0.575	0.547	0.525	0.509	0.496	0.484	0.477	0.470	0.465	0.460	0.456	0.452	0.449
	A 8.6	15.5	22.5	28.6	34.0	38.9	43.1	46.9	50.2	53.1	55.6	57.9	59.9	61.7	63.3	64.7	66.0	67.2	68.3	69.2
	K.....	1.48	1.94	2.47	3.06	3.72	4.46	5.27	6.16	7.12	8.17	9.29	10.50	11.78	13.15	14.60	16.12	17.73		
0.005	3C.....	99.6	94.9	90.2	86.2	82.0	78.9	76.7	75.5	74.5	73.5	72.7	71.9	71.3	70.8	70.4	70.0	69.7		
	F 3.383	1.897	1.359	1.090	0.933	0.833	0.765	0.718	0.682	0.656	0.635	0.619	0.607	0.596	0.588	0.580	0.574	0.569	0.565	0.561
	A 8.9	16.1	22.7	28.8	34.2	39.1	43.3	47.0	50.3	53.2	55.7	57.9	59.9	61.7	63.3	64.8	66.1	67.2	68.3	69.3
	K.....	1.57	1.99	2.47	3.00	3.59	4.24	4.96	5.73	6.57	7.47	8.44	9.47	10.57	11.72	12.95	14.24			
0.006	3C.....	100.0	99.3	98.0	96.7	95.4	94.3	93.4	92.6	91.9	91.3	90.8	90.3	90.0	89.6	89.3				
	F 3.932	2.239	1.614	1.298	1.118	0.996	0.916	0.859	0.817	0.786	0.762	0.743	0.727	0.715	0.705	0.696	0.689	0.683	0.678	0.673
	A 9.2	16.3	23.0	29.0	34.4	39.2	43.5	47.2	50.4	53.3	55.8	58.0	60.0	61.8	63.4	64.8	66.1	67.3	68.3	69.3
	K.....	1.67	2.07	2.52	3.01	3.56	4.15	4.80	5.50	6.26	7.07	7.91	8.84	9.81	10.83	11.91				
0.007	3C.....	100.0	99.3	98.0	96.7	95.4	94.3	93.4	92.6	91.9	91.3	90.8	90.3	90.0	89.6	89.3				
	F 4.448	2.570	1.863	1.504	1.293	1.157	1.065	1.000	0.952	0.916	0.888	0.866	0.848	0.834	0.822	0.812	0.804	0.797	0.791	0.785
	A 9.5	16.5	23.2	29.3	34.7	39.4	43.6	47.3	50.5	53.4	55.9	58.1	60.1	61.9	63.4	64.9	66.1	67.3	68.4	69.4
	K.....	1.74	2.14	2.59	3.08	3.62	4.21	4.85	5.54	6.28	7.07	7.91	8.84	9.81	10.83	11.91				
0.008	3C.....	100.0	99.3	98.0	96.7	95.4	94.3	93.4	92.6	91.9	91.3	90.8	90.3	90.0	89.6	89.3				
	F 4.933	2.891	2.108	1.707	1.470	1.318	1.214	1.140	1.086	1.045	1.013	0.988	0.968	0.952	0.939	0.927	0.918	0.910	0.903	0.897
	A 9.8	16.9	23.5	29.5	34.9	39.6	43.8	47.4	50.7	53.5	56.0	58.2	60.2	61.9	63.5	64.9	66.2	67.4	68.4	69.4
	K.....	1.81	2.21	2.66	3.15	3.69	4.28	4.92	5.61	6.35	7.14	7.98	8.87	9.81	10.83	11.91				
0.010	3C.....	100.0	99.3	98.0	96.7	95.4	94.3	93.4	92.6	91.9	91.3	90.8	90.3	90.0	89.6	89.3				
	F 5.825	3.503	2.582	2.104	1.819	1.635	1.509	1.419	1.353	1.303	1.264	1.233	1.209	1.189	1.172	1.158	1.147	1.137	1.128	1.121
	A 10.4	17.4	24.0	29.9	35.3	40.0	44.1	47.7	50.9	53.7	56.2	58.4	60.3	62.1	63.6	65.0	66.3	67.5	68.5	69.5
	K.....	1.91	2.31	2.76	3.25	3.79	4.38	4.99	5.64	6.34	7.09	7.89	8.74	9.64	10.59	11.59				

	CARRIERS PICKS ENDS 36 15 10																				
	UTAMIER OVER DIELFCIRIC																				
SIN,01A.	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000	
0.003	XC	90.7	96.3	92.1	88.4	85.4	82.9	81.0	79.4	78.1	77.0	74.2	75.4	74.8	74.3	73.8	73.4	73.4	73.4	73.1	
	F	3.102	1.683	1.190	0.928	0.808	0.720	0.660	0.618	0.587	0.564	0.546	0.532	0.521	0.512	0.504	0.494	0.493	0.488	0.485	
	A	8.3	15.5	22.2	28.3	33.8	38.7	43.0	46.7	50.0	53.0	55.5	57.8	59.8	61.6	63.2	64.6	66.0	67.1	68.2	
	K	1.36	1.79	2.28	2.83	3.45	4.13	4.89	5.71	6.61	7.58	8.63	9.75	10.95	12.22	13.57	14.99	16.49			
0.004	XC	99.8	98.5	96.8	95.2	93.8	92.6	91.5	90.6	89.2	88.7	88.2	87.8	87.5	87.2	87.0	86.7	86.5	86.2	86.2	
	F	3.997	2.205	1.570	1.255	1.072	0.956	0.877	0.822	0.781	0.751	0.727	0.709	0.694	0.682	0.672	0.664	0.657	0.651	0.646	
	A	8.6	15.8	22.5	28.6	34.0	38.9	43.1	46.9	50.2	53.1	55.6	57.9	59.9	61.7	63.3	64.7	66.0	67.2	68.3	
	K	1.73	2.14	2.60	3.12	3.69	4.31	4.99	5.72	6.51	7.35	8.25	9.21	10.22	11.29	12.41					
0.005	XC	99.9	99.6	98.9	98.6	98.2	98.7	98.2	97.8	97.4	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	
	F	4.833	2.710	1.941	1.557	1.333	1.190	1.095	1.025	0.975	0.937	0.908	0.885	0.867	0.852	0.839	0.829	0.821	0.813	0.807	
	A	8.9	16.1	22.7	28.8	34.2	39.1	43.3	47.0	50.3	53.2	55.7	57.9	59.9	61.7	63.3	64.8	66.1	67.3	68.3	
	K	2.51	2.97	3.47	4.01	4.60	5.23	5.91	6.64	7.40	8.22	9.08	9.97								
0.006	XC	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	F	5.617	3.199	2.385	1.855	1.591	1.423	1.308	1.227	1.168	1.123	1.088	1.061	1.039	1.021	1.007	0.994	0.981	0.968	0.962	
	A	9.2	16.3	23.0	29.0	34.4	39.2	43.5	47.2	50.4	53.3	55.8	58.0	60.0	61.8	63.4	64.9	66.1	67.3	68.3	
	K	3.67	3.94	4.36	4.73	5.05	53.4	55.9	58.1	60.1	61.9	63.4	64.9	66.1	67.3	68.4	69.4				
0.007	XC	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	F	6.354	3.672	2.661	2.148	1.847	1.653	1.522	1.429	1.360	1.308	1.268	1.237	1.211	1.191	1.174	1.160	1.148	1.138	1.129	
	A	9.5	16.6	23.2	29.3	34.7	39.4	43.6	47.3	50.5	53.4	55.9	58.1	60.1	61.9	63.4	64.9	66.1	67.3	68.4	
	K	4.36	4.73	5.05	53.4	55.9	58.1	60.1	61.9	63.4	64.9	66.1	67.3	68.4	69.4						
0.008	XC	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	F	7.068	4.130	3.011	2.438	2.100	1.883	1.734	1.629	1.552	1.493	1.448	1.412	1.383	1.360	1.341	1.325	1.312	1.300	1.290	
	A	9.8	16.9	23.5	29.5	34.9	39.6	43.8	47.4	50.7	53.5	56.0	58.2	60.2	61.9	63.5	64.9	66.2	67.4	68.4	
	K	5.05	5.42	5.74	6.01	6.28	6.55	6.82	7.09	7.36	7.63	7.90	8.17	8.44	8.71	8.98	9.25	9.52	9.79	10.06	
0.010	XC	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	F	8.321	5.005	3.689	3.005	2.590	2.336	2.156	2.028	1.933	1.861	1.804	1.762	1.727	1.698	1.674	1.655	1.638	1.624	1.612	
	A	10.4	17.4	24.0	29.9	35.3	40.0	44.1	47.7	50.9	53.7	56.2	58.4	60.3	62.1	63.6	65.0	66.3	67.5	68.5	
	K	7.06	7.43	7.75	8.02	8.29	8.56	8.83	9.10	9.37	9.64	9.91	10.18	10.45	10.72	10.99	11.26	11.53	11.80	12.07	

CARRIERS PICKS ENDS  
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DIAMETER OVER DIELECTRIC

STR. DIA.

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	IC*****	98.2	83.1	69.6	59.0	51.2	45.2	40.5	36.7	33.5	30.9	28.7	26.8	25.1	23.7	22.4	21.3	20.3	19.4	18.6
	F	1.637	0.866	0.589	0.446	0.360	0.302	0.260	0.229	0.204	0.185	0.169	0.156	0.144	0.135	0.126	0.119	0.113	0.107	0.098
	A	1.3	2.4	3.5	4.6	5.7	6.9	8.0	9.1	10.2	11.2	12.3	13.4	14.4	15.5	16.5	17.6	18.6	19.6	20.6
	K*****	1.16	1.70	2.25	2.81	3.36	3.92	4.48	5.05	5.63	6.21	6.80	7.39	7.99	8.60	9.22	9.85	10.49	11.14	11.60
0.004	IC*****	94.9	81.2	72.6	64.0	57.1	51.5	46.9	43.1	39.8	37.1	34.7	32.6	30.8	29.2	27.8	26.5	25.4	24.4	23.4
	F	2.108	1.133	0.775	0.590	0.476	0.400	0.345	0.303	0.271	0.245	0.224	0.207	0.192	0.179	0.168	0.159	0.150	0.143	0.136
	A	1.3	2.4	3.6	4.7	5.8	6.9	8.0	9.1	10.2	11.3	12.4	13.4	14.5	15.5	16.6	17.6	18.6	19.6	20.6
	K*****	1.30	1.71	2.12	2.54	2.96	3.38	3.81	4.24	4.67	5.11	5.56	6.01	6.47	6.94	7.41	7.89	8.37	8.87	9.37
0.005	IC*****	99.8	92.7	83.2	74.6	67.2	61.2	56.1	51.8	48.1	44.9	42.1	39.7	37.6	35.7	34.0	32.5	31.1	29.9	28.9
	F	2.527	1.390	0.957	0.730	0.591	0.497	0.429	0.377	0.338	0.306	0.279	0.258	0.239	0.223	0.210	0.198	0.188	0.178	0.163
	A	1.3	2.5	3.6	4.7	5.8	6.9	8.0	9.1	10.2	11.3	12.4	13.5	14.5	15.6	16.6	17.6	18.7	19.7	20.7
	K*****	1.05	1.38	1.71	2.04	2.38	2.72	3.06	3.40	3.75	4.11	4.46	4.82	5.19	5.56	5.94	6.32	6.71	7.11	7.51
0.006	IC*****	98.3	91.2	83.4	76.1	69.8	64.4	59.7	55.7	52.1	49.0	46.3	43.9	41.8	39.9	38.1	36.6	35.2	33.9	32.7
	F	2.958	1.839	1.234	0.868	0.703	0.592	0.512	0.451	0.403	0.365	0.334	0.308	0.286	0.267	0.251	0.237	0.225	0.214	0.204
	A	1.4	2.5	3.6	4.8	5.9	7.0	8.1	9.2	10.3	11.4	12.4	13.5	14.6	15.6	16.7	17.7	18.7	19.7	20.7
	K*****	1.16	1.44	1.71	1.99	2.28	2.56	2.85	3.14	3.43	3.73	4.03	4.34	4.65	4.96	5.28	5.61	5.94	6.28	6.61
0.007	IC*****	96.6	90.2	83.5	77.3	71.8	66.9	62.6	58.8	55.5	52.5	49.9	47.6	45.5	43.5	41.8	40.3	38.9	37.6	36.3
	F	3.383	1.878	1.307	0.903	0.815	0.686	0.594	0.523	0.469	0.425	0.388	0.358	0.333	0.311	0.292	0.276	0.261	0.249	0.237
	A	1.4	2.6	3.7	4.8	5.9	7.0	8.1	9.2	10.3	11.4	12.5	13.6	14.7	15.7	16.7	17.7	18.7	19.7	20.7
	K*****	1.24	1.48	1.72	1.96	2.20	2.45	2.70	2.95	3.21	3.47	3.73	4.00	4.27	4.54	4.82	5.10	5.38	5.66	5.94
0.008	IC*****	99.4	95.1	89.4	83.6	78.2	73.3	68.9	65.0	61.5	58.4	55.5	53.0	50.7	48.7	46.8	45.1	43.5	41.9	40.3
	F	3.705	2.110	1.476	1.136	0.924	0.780	0.675	0.595	0.533	0.483	0.442	0.408	0.379	0.355	0.333	0.315	0.298	0.284	0.271
	A	1.5	2.6	3.7	4.8	6.0	7.1	8.2	9.3	10.4	11.5	12.5	13.6	14.7	15.7	16.7	17.8	18.8	19.8	20.8
	K*****	1.09	1.30	1.51	1.72	1.94	2.15	2.37	2.59	2.82	3.04	3.27	3.51	3.74	3.98	4.23	4.47	4.71	4.95	5.19
0.010	IC*****	99.9	97.3	93.1	88.5	84.0	79.7	75.7	72.1	68.8	65.7	63.0	60.5	58.2	56.1	54.1	52.1	50.1	48.1	46.1
	F	4.367	2.549	1.802	1.394	1.138	0.962	0.835	0.737	0.661	0.600	0.549	0.507	0.472	0.441	0.415	0.391	0.371	0.353	0.333
	A	1.6	2.7	3.8	4.9	6.1	7.2	8.3	9.4	10.5	11.5	12.6	13.7	14.7	15.8	16.8	17.8	18.9	19.9	20.9
	K*****	1.06	1.22	1.39	1.56	1.74	1.91	2.09	2.27	2.45	2.63	2.82	3.01	3.20	3.40	3.60	3.80	4.00	4.20	4.40

STRIP, DIA. --- CARRIERS PICKS ENDS  
48 3 7

## DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
F	2.865	1.515	1.030	0.781	0.630	0.528	0.455	0.400	0.357	0.323	0.295	0.272	0.253	0.236	0.221	0.209	0.198	0.188	0.179	0.171
A	1.3	2.4	3.5	4.6	5.7	6.9	8.0	9.1	10.2	11.2	12.3	13.4	14.5	15.6	16.7	17.6	18.6	19.6	20.6	21.6
K	1.29	1.60	1.92	2.24	2.56	2.89	3.22	3.55	3.88	4.22	4.57	4.92	5.27	5.63	5.99	6.37	6.74	7.12	7.50	7.88
0.004	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
F	3.589	1.982	1.356	1.032	0.833	0.700	0.603	0.531	0.475	0.429	0.392	0.362	0.336	0.314	0.294	0.278	0.263	0.250	0.239	0.228
A	1.3	2.4	3.6	4.7	5.8	6.9	8.0	9.1	10.2	11.3	12.4	13.4	14.5	15.6	16.6	17.6	18.6	19.6	20.6	21.6
K	1.21	1.45	1.69	1.93	2.18	2.42	2.67	2.92	3.18	3.44	3.70	3.96	4.23	4.51	4.79	5.07	5.35	5.63	5.91	6.19
0.005	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
F	4.558	2.433	1.674	1.278	1.034	0.860	0.750	0.661	0.591	0.535	0.489	0.451	0.419	0.391	0.367	0.346	0.328	0.312	0.298	0.285
A	1.3	2.5	3.6	4.7	5.8	6.9	8.0	9.1	10.2	11.3	12.4	13.5	14.5	15.6	16.6	17.6	18.7	19.7	20.7	21.6
K	1.17	1.36	1.55	1.75	1.95	2.14	2.35	2.55	2.76	2.97	3.18	3.39	3.61	3.84	4.06	4.28	4.50	4.72	4.94	5.16
0.006	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
F	5.177	2.868	1.985	1.519	1.231	1.036	0.895	0.789	0.706	0.639	0.585	0.539	0.501	0.468	0.440	0.415	0.393	0.374	0.357	0.341
A	1.4	2.5	3.6	4.8	5.9	7.0	8.1	9.2	10.3	11.4	12.4	13.5	14.5	15.6	16.7	17.7	18.7	19.7	20.7	21.7
K	1.14	1.30	1.46	1.63	1.79	1.96	2.13	2.30	2.48	2.66	2.84	3.02	3.21	3.39	3.57	3.75	3.93	4.11	4.29	4.47
0.007	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
F	5.851	3.287	2.287	1.755	1.426	1.201	1.039	0.916	0.820	0.743	0.680	0.627	0.583	0.544	0.512	0.483	0.458	0.435	0.415	0.397
A	1.4	2.6	3.7	4.8	5.9	7.0	8.1	9.2	10.3	11.4	12.5	13.6	14.6	15.7	16.7	17.7	18.7	19.7	20.7	21.7
K	1.12	1.26	1.40	1.54	1.69	1.83	1.98	2.13	2.28	2.43	2.58	2.73	2.88	3.03	3.18	3.33	3.48	3.63	3.78	3.93
0.008	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
F	6.484	3.692	2.583	1.988	1.617	1.368	1.181	1.042	0.933	0.846	0.774	0.715	0.664	0.621	0.583	0.551	0.522	0.496	0.474	0.453
A	1.5	2.6	3.7	4.8	6.0	7.1	8.2	9.3	10.4	11.5	12.5	13.6	14.7	15.7	16.7	17.8	18.8	19.8	20.8	21.8
K	1.11	1.23	1.36	1.48	1.61	1.74	1.87	2.00	2.14	2.28	2.42	2.56	2.70	2.84	2.98	3.12	3.26	3.40	3.54	3.68
0.010	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
F	7.642	4.461	3.153	2.440	1.992	1.684	1.450	1.290	1.157	1.050	0.961	0.888	0.825	0.772	0.728	0.685	0.650	0.618	0.590	0.565
A	1.6	2.7	3.8	4.9	6.1	7.2	8.3	9.4	10.5	11.5	12.6	13.7	14.7	15.8	16.8	17.8	18.9	19.9	20.9	21.8
K	1.09	1.19	1.30	1.40	1.50	1.61	1.72	1.83	1.94	2.05	2.16	2.27	2.38	2.49	2.60	2.71	2.82	2.93	3.04	3.15

CARRIERS PICKS ENDS  
48 3 10

DIAMETER OVER DIELECTRIC

STR.DIA.

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	3C	99.0	94.0	87.8	81.6	76.0	71.0	66.6	62.6	59.1	56.0	53.2	50.8	48.5	46.5	44.7	43.0			
F	4.084	2.164	1.472	1.116	0.900	0.754	0.650	0.572	0.511	0.462	0.422	0.389	0.361	0.337	0.316	0.298	0.282	0.268	0.256	0.245
A	1.3	2.4	3.5	4.6	5.7	6.9	8.0	9.1	10.2	11.2	12.3	13.4	14.4	15.5	16.5	17.6	18.6	19.6	20.6	21.6
K	1.12	1.34	1.57	1.79	2.02	2.25	2.48	2.72	2.96	3.20	3.44	3.69	3.94	4.20	4.46	4.72				
0.004	3C	100.0	98.1	94.2	89.6	85.1	80.7	76.6	72.9	69.5	66.4	63.5	61.0	58.7	56.5	54.6				
F	5.270	2.832	1.938	1.474	1.190	0.999	0.862	0.759	0.678	0.613	0.561	0.517	0.480	0.448	0.421	0.397	0.376	0.357	0.341	0.326
A	1.3	2.4	3.6	4.7	5.8	6.9	8.0	9.1	10.2	11.3	12.4	13.4	14.5	15.5	16.6	17.6	18.6	19.6	20.6	21.6
K	1.02	1.18	1.35	1.52	1.70	1.87	2.05	2.22	2.40	2.59	2.77	2.96	3.15	3.35	3.55					
0.005	3C	99.7	97.4	94.4	90.9	87.3	83.8	80.5	77.4	74.5	71.8	69.3	67.0	64.8						
F	6.368	3.476	2.392	1.825	1.477	1.241	1.072	0.944	0.844	0.764	0.698	0.644	0.598	0.559	0.525	0.495	0.469	0.446	0.425	0.407
A	1.3	2.5	3.6	4.7	5.8	6.9	8.0	9.1	10.2	11.3	12.4	13.5	14.5	15.6	16.6	17.6	18.7	19.7	20.7	21.6
K	1.09	1.22	1.36	1.50	1.64	1.78	1.93	2.08	2.23	2.35	2.53	2.69	2.84							
0.006	3C	99.2	97.3	94.7	91.9	89.0	86.2	83.4	80.8	78.3	75.9	73.7								
F	7.395	4.097	2.635	2.170	1.759	1.480	1.279	1.127	1.008	0.913	0.835	0.770	0.715	0.668	0.628	0.592	0.561	0.534	0.509	0.487
A	1.4	2.5	3.6	4.8	5.9	7.0	8.1	9.2	10.3	11.4	12.4	13.5	14.6	15.6	16.7	17.7	18.7	19.7	20.7	21.7
K	1.14	1.26	1.37	1.49	1.61	1.74	1.86	1.99	2.11	2.24	2.38									
0.007	3C	99.0	98.9	97.2	95.1	92.8	90.4	88.0	85.7	83.4	81.3									
F	8.358	4.596	3.267	2.508	2.036	1.716	1.484	1.309	1.171	1.061	0.971	0.896	0.832	0.778	0.731	0.690	0.654	0.622	0.593	0.568
A	1.4	2.6	3.7	4.8	5.9	7.0	8.1	9.2	10.3	11.4	12.5	13.6	14.6	15.7	16.7	17.7	18.7	19.7	20.7	21.7
K	1.08	1.18	1.28	1.39	1.49	1.60	1.71	1.82	1.93	2.04										
0.008	3C	99.7	98.7	97.2	95.4	93.5	91.5	89.5	87.6											
F	9.263	5.274	3.689	2.840	2.310	1.949	1.687	1.489	1.333	1.208	1.106	1.021	0.942	0.887	0.833	0.786	0.745	0.709	0.677	0.648
A	1.5	2.6	3.7	4.8	6.0	7.1	8.2	9.3	10.4	11.5	12.5	13.6	14.7	15.7	16.7	17.8	18.8	19.8	20.8	21.8
K	1.13	1.22	1.31	1.40	1.50	1.59	1.69	1.79												
0.010	3C	100.0	99.5	98.6	97.5	96.3														
F	10.918	6.373	4.504	3.485	2.845	2.406	2.086	1.843	1.653	1.499	1.373	1.268	1.170	1.103	1.036	0.979	0.928	0.883	0.843	0.807
A	1.6	2.7	3.8	4.9	6.1	7.2	8.3	9.4	10.5	11.5	12.6	13.7	14.7	15.8	16.8	17.8	18.9	19.9	20.9	21.8
K	1.13	1.20	1.28	1.36	1.44															

CARTEERS PICKS FNDS  
48 9 4

SIR, DIA.

DIAMETER OVER DIELECTRIC

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	SC.....	98.4	83.8	70.6	60.8	53.6	48.1	43.8	40.4	37.7	35.5	33.7	32.2	30.9	29.8	28.9	28.1	27.4	26.8	26.3
	F	1.641	0.872	0.597	0.458	0.374	0.318	0.279	0.250	0.228	0.211	0.197	0.186	0.177	0.169	0.162	0.152	0.148	0.144	0.141
	A	3.8	7.1	10.4	13.6	16.8	19.8	22.8	25.6	28.2	30.8	33.2	35.5	37.7	39.8	41.7	43.5	45.2	46.9	49.8
	K	.....	1.17	1.73	2.31	2.92	3.55	4.21	4.91	5.65	6.43	7.25	8.12	9.04	10.02	11.04	12.12	13.26	14.45	15.71
0.004	SC.....	.....	95.5	84.4	74.5	66.6	60.4	55.4	51.5	48.2	45.6	43.3	41.5	39.9	38.6	37.4	36.4	35.5	34.8	34.1
	F	2.112	1.141	0.787	0.605	0.495	0.422	0.371	0.332	0.303	0.280	0.262	0.247	0.235	0.225	0.216	0.209	0.203	0.197	0.188
	A	3.9	7.3	10.5	13.8	16.9	19.9	22.9	25.7	28.3	30.9	33.3	35.6	37.8	39.8	41.8	43.6	45.3	46.9	49.9
	K	.....	1.31	1.75	2.21	2.68	3.18	3.70	4.26	4.84	5.46	6.12	6.81	7.54	8.31	9.13	9.98	10.88	11.82	12.80
0.005	SC.....	.....	99.9	93.7	85.1	77.4	70.9	65.6	61.3	57.7	54.7	52.2	50.0	48.2	46.7	45.3	44.2	43.2	42.3	41.5
	F	2.553	1.401	0.972	0.750	0.615	0.525	0.461	0.414	0.378	0.350	0.327	0.308	0.293	0.281	0.270	0.261	0.253	0.246	0.235
	A	4.0	7.4	10.7	13.9	17.0	20.1	23.0	25.8	28.5	31.0	33.4	35.7	37.9	39.9	41.8	43.7	45.4	47.0	50.0
	K	.....	1.07	1.42	1.78	2.16	2.56	2.98	3.42	3.89	4.39	4.92	5.47	6.06	6.68	7.33	8.01	8.73	9.49	10.27
0.006	SC.....	.....	94.8	82.8	74.0	66.0	59.8	54.5	50.2	46.2	42.9	40.2	37.9	35.9	34.2	32.7	31.4	30.3	29.5	28.7
	F	2.965	1.651	1.152	0.801	0.732	0.628	0.551	0.495	0.452	0.418	0.391	0.360	0.336	0.323	0.312	0.303	0.295	0.288	0.282
	A	4.2	7.5	10.8	14.0	17.2	20.2	23.1	25.9	28.6	31.1	33.5	35.8	38.0	40.0	41.9	43.7	45.4	47.1	50.0
	K	.....	1.19	1.50	1.81	2.15	2.50	2.87	3.26	3.68	4.12	4.58	5.07	5.59	6.13	6.70	7.30	7.93	8.59	
0.007	SC.....	.....	97.7	92.5	87.0	81.9	77.5	73.6	70.3	67.5	65.1	63.0	61.1	59.6	58.2	57.0	55.9	54.9	54.9	
	F	3.352	1.893	1.328	1.031	0.849	0.726	0.639	0.575	0.525	0.487	0.455	0.430	0.409	0.391	0.377	0.364	0.353	0.344	0.336
	A	4.3	7.6	10.9	14.2	17.3	20.3	23.2	26.0	28.7	31.2	33.6	35.9	38.0	40.1	42.0	43.8	45.5	47.1	50.1
	K	.....	1.29	1.57	1.85	2.15	2.47	2.81	3.17	3.54	3.94	4.36	4.81	5.27	5.76	6.28	6.82	7.39		
0.008	SC.....	.....	99.9	97.0	92.6	88.1	83.9	80.1	76.9	74.0	71.5	69.4	67.5	65.8	64.4	63.1	62.0	61.0	60.0	
	F	3.715	2.127	1.501	1.168	0.963	0.825	0.727	0.654	0.598	0.554	0.519	0.490	0.467	0.447	0.430	0.416	0.403	0.393	0.383
	A	4.4	7.8	11.1	14.3	17.4	20.4	23.3	26.1	28.8	31.3	33.7	36.0	38.1	40.1	42.1	43.9	45.6	47.2	50.1
	K	.....	1.14	1.38	1.63	1.90	2.17	2.47	2.78	3.11	3.46	3.83	4.22	4.63	5.06	5.51	5.99	6.48		
0.010	SC.....	.....	99.0	94.5	93.4	90.3	87.5	84.8	82.4	80.3	78.5	76.8	75.3	74.0	72.8	71.7	70.6	69.5	68.4	67.3
	F	4.380	2.572	1.833	1.435	1.184	1.021	0.901	0.812	0.743	0.689	0.646	0.610	0.581	0.557	0.536	0.518	0.503	0.490	0.478
	A	4.7	8.0	11.3	14.5	17.6	20.7	23.6	26.3	29.0	31.5	34.1	36.7	39.3	42.0	44.6	47.2	49.8	52.4	55.0
	K	.....	1.32	1.53	1.76	2.00	2.25	2.51	2.79	3.09	3.40	3.73	4.08	4.44	4.82	5.22				

SIR.DTA.

## DIAMETER OVER DIELECTRIC

CARRIERS PICKS FNDS  
a8 9 7

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	2C*****	96.1	88.1	80.4	73.9	68.4	63.9	60.2	57.1	54.5	52.3	50.4	48.8	47.4	46.1	45.1	44.2	43.3		
F	2.871	1.525	1.046	0.801	0.655	0.557	0.489	0.438	0.399	0.369	0.345	0.325	0.309	0.294	0.274	0.266	0.259	0.253	0.247	
A	3.8	7.1	10.4	13.6	16.8	19.8	22.8	25.6	28.2	30.8	33.2	35.5	37.7	39.8	41.7	43.5	45.2	46.9	48.4	49.0
K	*****	1.32	1.67	2.03	2.41	2.81	3.23	3.67	4.14	4.64	5.17	5.72	6.31	6.93	7.58	8.26	8.98	9.72		
0.004	2C*****	98.2	93.2	87.6	82.5	78.0	74.1	70.7	67.8	65.1	63.2	61.4	59.7	58.3	57.1	56.0	55.0			
F	3.697	1.997	1.377	1.059	0.867	0.739	0.648	0.582	0.531	0.491	0.450	0.433	0.411	0.393	0.378	0.365	0.354	0.345	0.337	0.329
A	3.9	7.3	10.5	13.8	16.9	19.9	22.9	25.7	28.3	30.9	33.3	35.6	37.8	39.8	41.8	43.6	45.3	46.9	48.5	49.9
K	*****	1.26	1.53	1.82	2.12	2.43	2.77	3.12	3.50	3.89	4.31	4.75	5.22	5.71	6.22	6.75	7.32			
0.005	2C*****	99.3	96.3	92.4	88.5	84.9	81.7	78.8	76.3	74.1	72.1	70.4	68.9	67.6	66.4	65.4				
F	4.467	2.451	1.701	1.312	1.076	0.918	0.807	0.724	0.661	0.612	0.572	0.540	0.513	0.491	0.472	0.456	0.443	0.431	0.420	0.411
A	4.0	7.4	10.7	13.9	17.0	20.1	23.0	25.8	28.5	31.0	33.4	35.7	37.9	39.9	41.8	43.7	45.4	47.0	48.5	50.0
K	*****	1.23	1.46	1.70	1.96	2.23	2.51	2.81	3.13	3.46	3.82	4.19	4.58	4.99	5.42	5.87				
0.006	2C*****	99.9	98.2	95.6	92.8	90.1	87.5	85.2	83.0	81.2	79.5	78.0	76.6	75.4	74.3					
F	5.189	2.890	2.016	1.560	1.287	1.096	0.964	0.866	0.791	0.732	0.685	0.646	0.615	0.588	0.566	0.547	0.531	0.516	0.504	0.493
A	4.2	7.5	10.8	14.0	17.2	20.2	23.1	25.9	28.6	31.1	33.5	35.8	38.0	40.0	41.9	43.7	45.4	47.1	48.6	50.0
K	*****	1.23	1.43	1.64	1.86	2.10	2.35	2.62	2.90	3.19	3.50	3.83	4.17	4.53	4.91					
0.007	2C*****	99.4	97.8	95.9	93.9	91.9	89.9	88.4	86.9	85.4	84.1	83.0	81.9							
F	5.866	3.313	2.325	1.804	1.485	1.271	1.119	1.006	0.919	0.851	0.797	0.752	0.716	0.685	0.659	0.637	0.618	0.602	0.588	0.575
A	4.3	7.6	10.9	14.2	17.3	20.3	23.2	26.0	28.7	31.2	33.6	35.9	38.0	40.1	42.0	43.8	45.5	47.1	48.6	50.1
K	*****	1.41	1.61	1.81	2.02	2.25	2.49	2.75	3.01	3.29	3.59	3.90	4.22							
0.008	2C*****	99.9	99.2	98.0	96.6	95.2	93.9	92.6	91.3	90.2	89.2	88.2								
F	6.502	3.722	2.626	2.044	1.685	1.445	1.273	1.145	1.047	0.970	0.908	0.858	0.816	0.782	0.752	0.727	0.706	0.687	0.671	0.657
A	4.4	7.8	11.1	14.3	17.4	20.4	23.3	26.1	28.8	31.3	33.7	36.0	38.1	40.1	42.1	43.9	45.6	47.2	48.7	50.1
K	*****	1.41	1.59	1.78	1.98	2.19	2.41	2.65	2.89	3.15	3.42	3.70								
0.010	2C*****	99.9	99.6	99.1	98.6	98.0	97.3	96.7												
F	7.665	4.501	3.208	2.511	2.078	1.788	1.577	1.421	1.301	1.206	1.130	1.068	1.017	0.974	0.938	0.907	0.880	0.857	0.837	0.820
A	4.7	8.0	11.3	14.5	17.6	20.7	23.6	26.3	29.0	31.5	33.9	36.1	38.3	40.3	42.2	44.0	45.7	47.3	48.8	50.2
K	*****	1.77	1.94	2.13	2.33	2.54	2.75	2.98												



STR. DIA.	CARRIERS		PICKS		ENDS																
	48	9	10																		
	DIAMETER OVER DIELECTRIC																				
	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000	
0.003	SC	99.6	95.8	90.9	86.0	81.6	77.7	74.3	71.3	68.6	66.6	64.7	63.0	61.6	60.3	59.2	58.2				
	F	4.101	2.179	1.494	1.185	0.935	0.796	0.698	0.626	0.571	0.527	0.493	0.465	0.442	0.422	0.406	0.392	0.380	0.370	0.361	0.353
	A	3.8	7.1	10.4	13.6	16.8	19.8	22.8	25.6	28.2	30.8	33.2	35.5	37.7	39.8	41.7	43.5	45.2	46.9	48.4	49.8
	K	1.17	1.42	1.68	1.96	2.26	2.57	2.90	3.25	3.62	4.01	4.42	4.85	5.30	5.78	6.28	6.81				
0.004	SC	99.5	97.1	94.1	91.1	88.1	85.1	83.0	80.8	78.9	77.2	75.6	74.3	73.1	72.0						
	F	5.281	2.852	1.967	1.513	1.238	1.055	0.926	0.831	0.758	0.701	0.655	0.618	0.588	0.562	0.540	0.522	0.506	0.493	0.481	0.471
	A	3.9	7.3	10.5	13.8	16.9	19.9	22.9	25.7	28.3	30.9	33.3	35.6	37.8	39.8	41.8	43.6	45.3	46.9	48.5	49.9
	K	1.27	1.48	1.70	1.94	2.19	2.45	2.72	3.02	3.33	3.65	3.99	4.35	4.73	5.12						
0.005	SC	99.7	98.4	96.7	94.8	92.9	91.1	89.4	87.9	86.5	85.2	84.1	83.0								
	F	6.362	3.502	2.429	1.874	1.536	1.312	1.153	1.035	0.944	0.874	0.817	0.771	0.733	0.701	0.675	0.652	0.632	0.615	0.601	0.588
	A	4.0	7.4	10.7	13.9	17.0	20.1	23.0	25.8	28.5	31.0	33.4	35.7	37.9	39.9	41.8	43.7	45.4	47.0	48.5	50.0
	K	1.37	1.56	1.76	1.97	2.19	2.42	2.67	2.93	3.21	3.49	3.79	4.11								
0.006	SC	100.0	99.4	98.5	97.4	96.3	95.2	94.1	93.1	92.2	91.3										
	F	7.413	4.128	2.880	2.229	1.831	1.565	1.377	1.237	1.130	1.045	0.978	0.923	0.878	0.840	0.808	0.781	0.754	0.738	0.720	0.705
	A	4.2	7.5	10.8	14.0	17.2	20.2	23.1	25.9	28.6	31.1	33.5	35.8	38.0	40.0	41.9	43.7	45.4	47.1	48.6	50.0
	K	1.47	1.65	1.83	2.03	2.23	2.45	2.69	2.92	3.17	3.44										
0.007	SC	100.0	99.7	99.0	98.0	97.0	96.0	95.0	94.0	93.0	92.0	91.0	90.0	89.0	88.0	87.0	86.0	85.0	84.0	83.0	82.0
	F	8.379	4.733	3.321	2.577	2.121	1.816	1.599	1.437	1.313	1.216	1.138	1.075	1.023	0.979	0.942	0.910	0.883	0.860	0.839	0.822
	A	4.3	7.6	10.9	14.2	17.3	20.3	23.2	26.0	28.7	31.2	33.6	35.9	38.0	40.1	42.0	43.8	45.5	47.1	48.6	50.1
	K	1.74	1.92	2.11	2.31	2.51	2.73	2.95													
0.008	SC	100.0	99.8	99.6	99.4	99.2	99.0	98.8	98.6	98.4	98.2	98.0	97.8	97.6	97.4	97.2	97.0	96.8	96.6	96.4	96.2
	F	9.288	5.318	3.751	2.920	2.408	2.054	1.818	1.636	1.496	1.386	1.298	1.224	1.166	1.117	1.075	1.039	1.008	0.982	0.958	0.938
	A	4.4	7.8	11.1	14.3	17.4	20.4	23.3	26.1	28.8	31.3	33.7	36.0	38.1	40.1	42.1	43.9	45.6	47.2	48.7	50.1
	K	2.21	2.39	2.59																	
0.010	SC	100.0	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5	98.4	98.3	98.2	98.1
	F	10.951	6.430	4.583	3.587	2.969	2.551	2.252	2.029	1.858	1.723	1.614	1.526	1.453	1.391	1.340	1.295	1.257	1.225	1.196	1.171
	A	4.7	8.0	11.3	14.5	17.6	20.7	23.6	26.3	29.0	31.5	33.9	36.1	38.3	40.3	42.2	44.0	45.7	47.3	48.8	50.2
	K																				

CARRIERS PICKS ENDS  
48 15 4

DIAMETER OVER DIELECTRIC

STR.DIA.

	0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000
0.003	98.6	85.1	73.0	65.1	57.7	53.0	49.8	46.7	44.6	42.9	41.5	40.4	39.5	38.7	38.1	37.5	37.0	36.6	36.3	
F	1.647	0.883	0.615	0.480	0.401	0.350	0.314	0.289	0.270	0.255	0.244	0.235	0.228	0.222	0.217	0.213	0.209	0.206	0.204	0.202
A	6.3	11.8	17.0	22.0	26.7	31.0	35.0	38.6	41.8	44.8	47.5	50.0	52.2	54.2	56.0	57.7	59.2	60.7	62.0	63.1
K	1.18	1.78	2.42	3.13	3.89	4.74	5.66	6.68	7.78	8.98	10.27	11.67	13.16	14.76	16.46	18.26	20.17	22.18	24.30	
0.004	96.4	86.7	78.0	71.2	66.1	62.0	58.9	56.4	54.4	52.8	51.5	50.4	49.5	48.7	48.0	47.5	47.0	46.5		
F	2.121	1.157	0.810	0.635	0.551	0.468	0.417	0.384	0.359	0.340	0.325	0.313	0.301	0.296	0.289	0.284	0.279	0.275	0.272	0.269
A	6.5	12.0	17.2	22.2	26.9	31.2	35.1	38.7	42.0	44.9	47.6	50.0	52.3	54.3	56.1	57.8	59.3	60.7	62.0	63.2
K	1.35	1.84	2.37	2.94	3.58	4.28	5.04	5.87	6.77	7.75	8.80	9.92	11.12	12.40	13.75	15.19	16.70	18.29		
0.005	95.5	85.4	76.9	72.0	68.5	66.8	64.7	62.9	61.4	60.2	59.2	58.3	57.6	56.9	56.4	55.9				
F	2.564	1.421	1.001	0.787	0.660	0.577	0.520	0.478	0.448	0.424	0.406	0.391	0.379	0.369	0.361	0.354	0.349	0.344	0.340	0.336
A	6.7	12.2	17.4	22.4	27.0	31.3	35.3	38.8	42.1	45.0	47.7	50.1	52.3	54.3	56.2	57.8	59.4	60.8	62.1	63.2
K	1.49	1.91	2.38	2.89	3.44	4.06	4.72	5.45	6.23	7.07	7.97	8.94	9.96	11.05	12.20	13.41	14.68			
0.006	94.6	85.5	78.5	73.6	70.2	68.9	67.9	66.9	66.1	65.5	65.0	64.5	64.0	63.5	63.0	62.5	62.0	61.5	61.0	60.5
F	2.976	1.676	1.188	0.937	0.787	0.689	0.621	0.572	0.536	0.508	0.486	0.468	0.454	0.443	0.433	0.425	0.418	0.412	0.407	0.403
A	6.9	12.4	17.6	22.6	27.2	31.5	35.4	39.0	42.2	45.2	47.8	50.2	52.4	54.4	56.2	57.9	59.4	60.8	62.1	63.3
K	1.25	1.61	2.00	2.42	2.89	3.40	3.96	4.56	5.22	5.92	6.67	7.48	8.34	9.24	10.20	11.21	12.28			
0.007	93.2	84.2	77.2	72.3	68.8	66.3	64.2	62.4	60.9	59.6	58.4	57.3	56.3	55.3	54.4	53.5	52.6	51.7	50.8	50.0
F	3.369	1.923	1.370	1.084	0.913	0.800	0.722	0.666	0.624	0.591	0.566	0.546	0.529	0.516	0.505	0.495	0.488	0.481	0.475	0.470
A	7.2	12.6	17.8	22.8	27.4	31.7	35.6	39.1	42.3	45.3	47.9	50.3	52.5	54.5	56.3	58.0	59.5	60.9	62.2	63.3
K	1.39	1.72	2.09	2.49	2.93	3.41	3.93	4.50	5.10	5.75	6.34	7.17	7.95	8.78	9.65	10.56				
0.008	92.2	83.2	76.2	71.3	67.8	65.3	63.2	61.4	59.9	58.6	57.4	56.3	55.3	54.4	53.5	52.6	51.7	50.8	50.0	49.2
F	3.735	2.161	1.549	1.229	1.037	0.910	0.823	0.759	0.711	0.674	0.646	0.623	0.604	0.589	0.576	0.566	0.557	0.549	0.543	0.537
A	7.4	12.8	18.1	23.0	27.6	31.8	35.7	39.2	42.5	45.4	48.0	50.4	52.4	54.6	56.4	58.0	59.5	60.9	62.2	63.4
K	1.52	1.84	2.20	2.58	3.00	3.46	3.95	4.48	5.05	5.66	6.30	6.99	7.71	8.47	9.27					
0.010	90.7	81.7	74.7	69.8	66.3	63.8	61.7	60.0	58.4	57.0	55.7	54.5	53.4	52.4	51.4	50.5	49.6	48.7	47.8	47.0
F	4.406	2.616	1.895	1.513	1.281	1.128	1.021	0.943	0.885	0.840	0.805	0.776	0.754	0.735	0.719	0.706	0.695	0.686	0.678	0.671
A	7.8	13.3	18.5	23.2	27.9	32.1	36.0	39.5	42.7	45.6	48.2	50.6	52.6	54.7	56.5	58.2	59.7	61.0	62.3	63.5
K	1.78	2.09	2.43	2.80	3.20	3.62	4.08	4.57	5.09	5.64	6.22	6.83	7.47							

		CARTIERS PICKS ENDS																
		48 15 7																
STR. DIA.		DIAMETER OVER DIELECTRIC																
		0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.950 1.000
0.003	SC	97.4	91.1	84.9	79.7	75.5	72.1	69.4	67.2	65.4	63.9	62.6	61.5	60.6	59.9	59.2	58.6	58.1
	F	2.882	1.546	1.076	0.840	0.701	0.612	0.550	0.505	0.472	0.447	0.427	0.411	0.399	0.388	0.373	0.361	0.353
	A	6.3	11.8	17.0	22.0	26.7	31.0	35.0	38.6	41.8	44.8	47.5	50.0	52.2	54.2	57.7	59.2	60.7
	K	1.39	1.79	2.23	2.71	3.24	3.82	4.45	5.13	5.87	6.67	7.52	8.43	9.41	10.44	11.52	12.67	13.88
0.004	SC	99.5	96.5	92.7	89.2	86.2	83.6	81.4	79.6	78.0	76.7	75.6	74.6	73.8	73.1	72.5	72.0	
	F	3.712	2.025	1.417	1.111	0.929	0.812	0.730	0.672	0.628	0.595	0.569	0.548	0.531	0.517	0.506	0.496	0.471
	A	6.5	12.0	17.2	22.2	26.9	31.2	35.1	38.7	42.0	44.9	47.6	50.0	52.3	54.3	56.1	57.8	60.7
	K	1.35	1.68	2.05	2.44	2.88	3.35	3.87	4.43	5.03	5.67	6.35	7.06	7.86	8.68	9.54	10.45	
0.005	SC	99.2	97.3	95.3	93.3	91.6	90.0	88.7	87.5	86.5	85.6	84.8	84.1	83.5	83.0			
	F	4.487	2.887	1.752	1.377	1.155	1.010	0.910	0.837	0.783	0.742	0.710	0.684	0.663	0.646	0.632	0.620	0.594
	A	6.7	12.2	17.4	22.4	27.0	31.3	35.3	39.8	42.1	45.0	47.7	50.1	52.3	54.3	56.2	57.8	60.8
	K	1.65	1.97	2.32	2.70	3.11	3.56	4.04	4.56	5.11	5.69	6.31	6.97	7.66	8.39			
0.006	SC	99.2	97.3	95.3	93.3	91.6	90.0	88.7	87.5	86.5	85.6	84.8	84.1	83.5	83.0			
	F	5.213	2.933	2.078	1.639	1.377	1.206	1.087	1.002	0.938	0.889	0.850	0.820	0.795	0.775	0.758	0.744	0.732
	A	6.9	12.4	17.6	22.6	27.2	31.5	35.4	39.0	42.2	45.2	47.8	50.2	52.4	54.4	56.2	57.9	60.8
	K	1.94	2.26	2.61	2.98	3.38	3.81	4.27	4.76	5.26	5.83	6.41	7.02					
0.007	SC	100.0	99.8	99.5	99.1	98.6	98.2	97.8	97.5	97.2	96.8							
	F	5.895	3.465	2.398	1.897	1.597	1.401	1.264	1.165	1.091	1.035	0.990	0.955	0.926	0.903	0.883	0.867	0.853
	A	7.2	12.6	17.8	22.8	27.6	31.7	35.6	39.1	42.3	45.3	47.9	50.3	52.5	54.5	56.3	58.0	60.9
	K	2.25	2.57	2.91	3.28	3.68	4.10	4.55	5.02	5.51	6.04							
0.008	SC	100.0	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5	98.4
	F	6.536	3.782	2.711	2.151	1.814	1.593	1.439	1.328	1.244	1.180	1.130	1.090	1.057	1.031	1.009	0.990	0.974
	A	7.4	12.8	18.1	23.0	27.6	31.8	35.7	39.2	42.5	45.4	48.0	50.4	52.6	54.6	56.4	58.0	60.9
	K	3.60	3.99	4.41	4.84	5.30	5.79	6.29	6.81	7.34	7.88	8.43	8.99	9.56	10.14	10.73	11.33	11.94
0.010	SC	100.0	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5	98.4
	F	7.711	4.578	3.316	2.648	2.242	1.974	1.786	1.650	1.548	1.470	1.408	1.359	1.319	1.286	1.259	1.236	1.217
	A	7.8	13.3	18.5	23.4	27.9	32.1	36.0	39.5	42.7	45.6	48.2	50.6	52.8	54.7	56.5	58.2	60.3
	K	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0

		CARRIERS PICKS ENDS																				
		48 15 10																				
STR. DIA.		DIAMETER OVER DIELECTRIC																				
		0.050	0.100	0.150	0.200	0.250	0.300	0.350	0.400	0.450	0.500	0.550	0.600	0.650	0.700	0.750	0.800	0.850	0.900	0.950	1.000	
0.003	XC							98.4	95.4	92.3	89.4	86.9	84.8	83.0	81.5	80.2	79.1	78.1	77.3	76.6	76.0	75.4
	F							4.117	2.208	1.536	1.200	1.002	0.874	0.785	0.722	0.675	0.638	0.610	0.588	0.570	0.555	0.543
	A							6.3	11.8	17.0	22.0	26.7	31.0	35.0	38.6	41.8	44.8	47.5	50.0	52.2	54.2	56.0
	K							1.56	1.90	2.27	2.67	3.11	3.59	4.11	4.67	5.27	5.90	6.58	7.30	8.07	8.87	9.72
0.004	XC								99.8	98.9	97.7	96.5	95.3	94.2	93.2	92.3	91.5	90.9	90.3	89.7	89.3	
	F								5.303	2.892	2.025	1.587	1.328	1.159	1.043	0.960	0.897	0.850	0.812	0.783	0.759	0.739
	A								6.5	12.0	17.2	22.2	26.9	31.2	35.1	38.7	42.0	44.9	47.4	50.0	52.1	54.1
	K									1.71	2.02	2.35	2.71	3.10	3.52	3.97	4.45	4.96	5.50	6.07	6.68	7.31
0.005	XC																					
	F								6.410	3.553	2.502	1.967	1.649	1.442	1.299	1.196	1.119	1.060	1.014	0.977	0.947	0.923
	A								6.7	12.2	17.4	22.4	27.0	31.3	35.3	38.8	42.1	45.0	47.7	50.1	52.3	54.3
	K																					
0.006	XC																					
	F								7.438	4.190	2.969	2.342	1.967	1.723	1.553	1.431	1.340	1.289	1.255	1.236	1.227	1.223
	A								6.0	12.4	17.6	22.6	27.2	31.5	35.4	39.0	42.2	45.2	47.8	50.2	52.4	54.4
	K																					
0.007	XC																					
	F								8.421	4.807	3.426	2.711	2.282	2.001	1.806	1.665	1.559	1.478	1.415	1.368	1.333	1.307
	A								7.2	12.6	17.8	22.8	27.4	31.7	35.6	39.1	42.1	44.3	45.9	47.9	50.3	52.5
	K																					
0.008	XC																					
	F								9.337	5.404	3.872	3.073	2.592	2.276	2.056	1.897	1.778	1.686	1.614	1.557	1.511	1.473
	A								7.4	12.8	18.1	23.0	27.6	31.8	35.7	39.2	42.5	45.4	48.0	50.4	52.6	54.6
	K																					
0.010	XC																					
	F								11.016	6.501	4.738	3.783	3.202	2.819	2.552	2.358	2.212	2.100	2.012	1.941	1.884	1.837
	A								7.8	13.3	18.5	23.4	27.9	32.1	36.0	39.5	42.7	45.6	48.2	50.6	52.8	54.7
	K																					